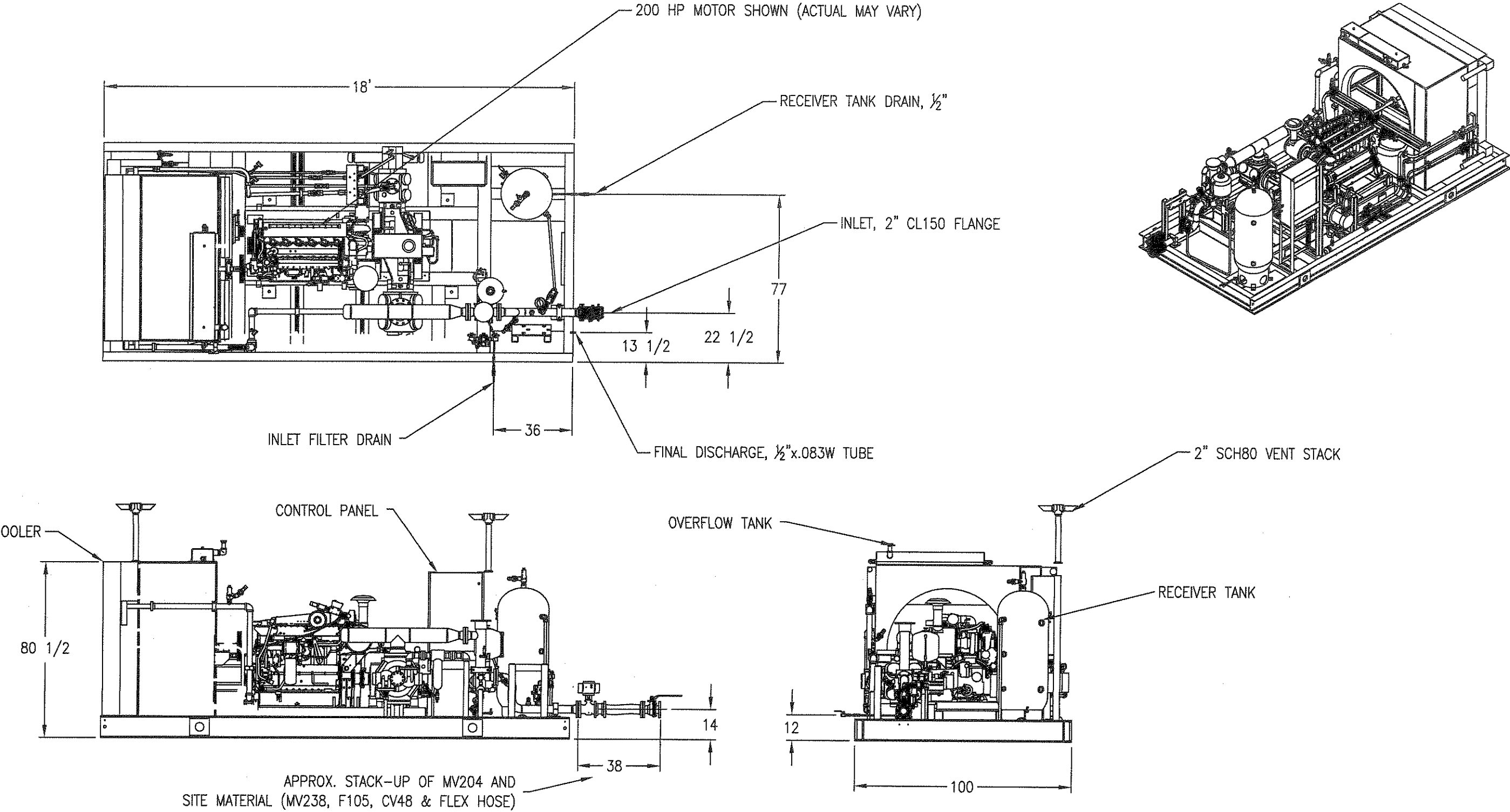


ESTIMATED WEIGHT = 15000 LBS



REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION

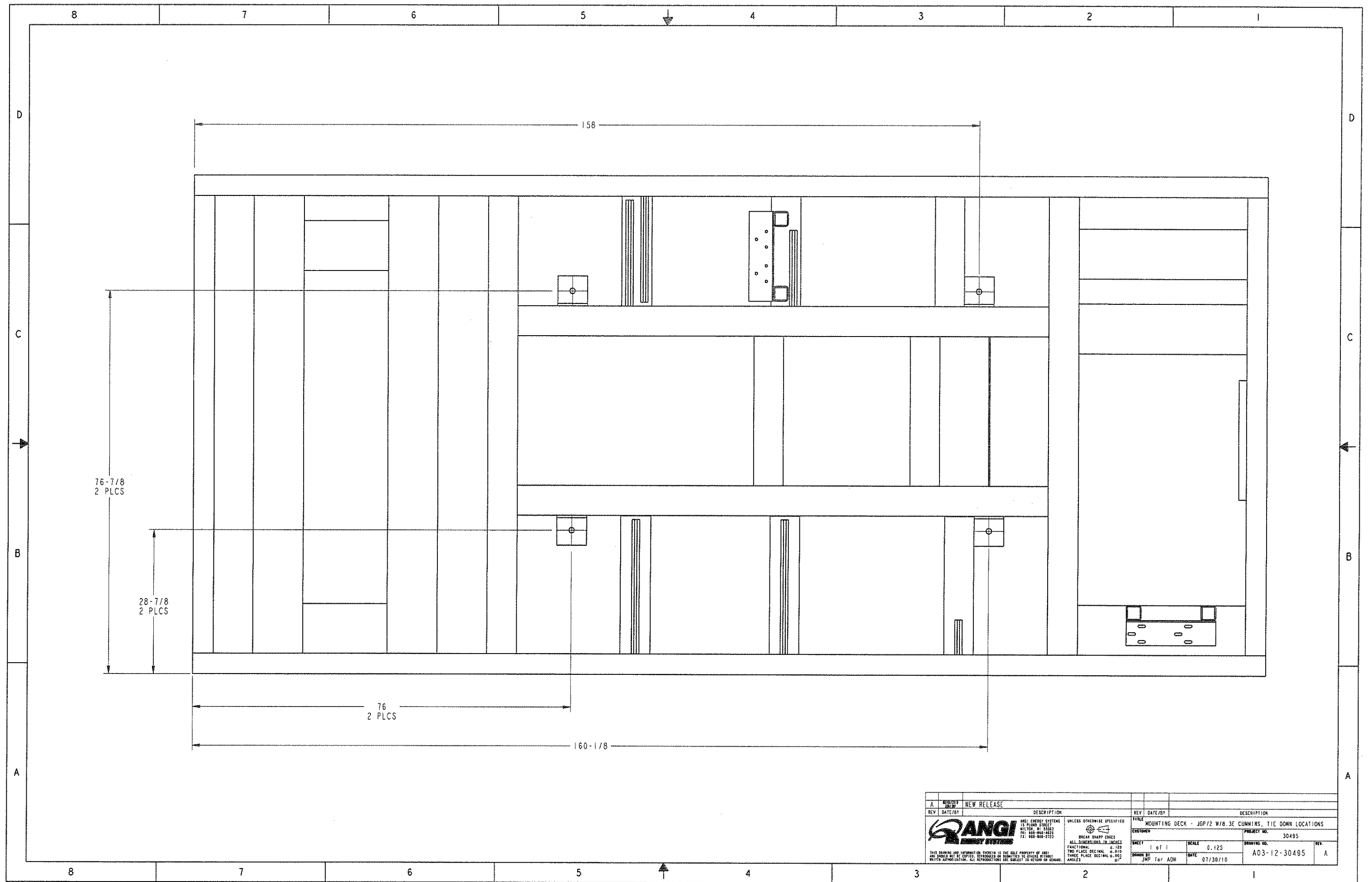


ANGI ENERGY SYSTEMS
15 PLUMB STREET
MILTON, WI 53563
PH: 608-868-4626
FX: 608-868-2723

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UNLESS OTHERWISE SPECIFIED
BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES
FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE GENERAL ARRANGEMENT 100 HP CUMMINS ENGINE DRIVE					
CUSTOMER		WESD		PROJECT NO. 30495	
SHEET	1/1	SCALE	1:48	DRAWING NO.	REV.
DRAWN BY	ADM	DATE	07/26/10	A03-10-30495	—

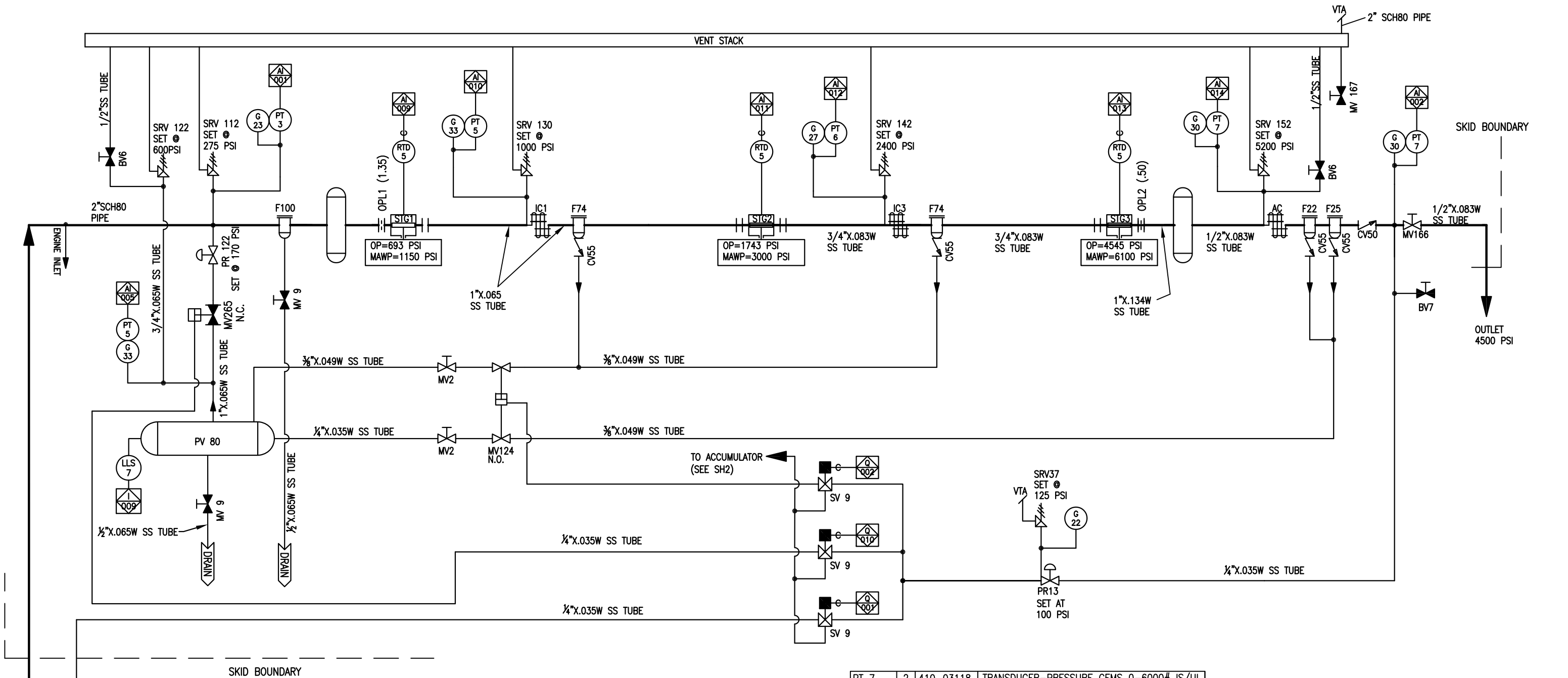


A		NEW RELEASE					
REV	DATE/BY	DESCRIPTION		REV	DATE/BY	DESCRIPTION	
		ANGI ENERGY SYSTEMS 15 PLUMB STREET MILTON, WI 53553 TEL: 800-868-2624 FX: 800-868-2723		UNLESS OTHERWISE SPECIFIED		TITLE MOUNTING DECK - JGP/2 W/8.3E CUMMINS, TIE DOWN LOCATIONS	
CUSTOMER		ANGI ENERGY SYSTEMS		PROJECT NO.		30495	
SHEET		1 OF 1		SCALE		0.125	
DRAWN BY		JMP for ADM		DATE		07/30/10	
				DRAWING NO.		A03-12-30495	
				REV.		A	

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ANGI ENERGY SYSTEMS
15 PLUMB STREET
MILTON, WI 53553
TEL: 800-868-2624
FX: 800-868-2723

UNLESS OTHERWISE SPECIFIED
BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES
FRACTIONAL: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8
TWO PLACE DECIMAL: .010
THREE PLACE DECIMAL: .005
ANGLES: 30°, 45°, 60°, 90°, 120°, 150°, 180°



OPL 2	1		SHOP MADE & WELDED ORIFICE (0.50" HOLE)
OPL 1	1	720-07598	ORIFICE-PLATE 2 CL600 316SS (1.35" HOLE)
SV 9	3	330-07243	VALVE-SOL 3WY 1/4 150# 120V NC BRS UL
SRV 152	1	331-08052	VALVE-RELIEF 5200# C-ORF MERCER
SRV 142	1	331-08042	VALVE-RELIEF 2400# C-ORF MERCER
SRV 130	1	331-08030	VALVE-RELIEF 1000# D-ORF MERCER
SRV 122	1	331-08022	VALVE-RELIEF 600# D-ORF MERCER
SRV 112	1	331-08012	VALVE-RELIEF 275# D-ORF MERCER
SRV 37	1	331-04522	VALVE-RELIEF 125# 1/4 ASME CSEAL
	4	700-02978	THERMOWELL-2.5 x 1/2 NPT 5700#
	4	303-07260	ADAPTER-SPRING LOAD PROBE/THRM
	4	700-07283	RTD-TIP SENSITIVE -58-500°F
RTD 5	3	400-07303	TRANSMITTER-TEMP 32-392°F MURPHY
PV 80	1	944-07263	TANK-VERT 100GAL 600# 24"OD 64 1/2"OAL

DESIGNATOR	QTY	PART NUMBER	DESCRIPTION
------------	-----	-------------	-------------

PT 7	2	410-03118	TRANSDUCER-PRESSURE GEMS 0-6000# IS/UL
PT 6	1	410-03117	TRANSDUCER-PRESSURE GEMS 0-3000# IS/UL
PT 5	2	410-03116	TRANSDUCER-PRESSURE GEMS 0-1000# IS/UL
PT 3	1	410-04408	TRANSDUCER-PRESSURE GEMS 0-300# IS/UL
PR 13	1	500-01674	REG-MECO PRIMARY W/O ENV CAP15
PR 122	1	991-07317	REG-1"150-200# SPRG 3/8ORF 630
MV 265	1	334-07470	VALVE/ACT-ASSY SVF 1 1000# F.P. N.C.
MV 204	1	334-07409	VALVE/ACT-ASSY SVF 2 CL150 NC
MV 167	1	334-07284	VALVE-BALL MV 1/2 600# W/LKG H
MV 166	1	334-07362	VALVE-BALL SVF 1/2 6000# W/LKG
MV 124	1	334-07322	VALVE/ACT-HOKE (2) 3/8 NO 5000# W/ACT
MV 238	1	334-07443	VALVE-BALL SVF 2 CL150 W/LKG H
MV 9	2	334-02490	VALVE-BALL MV 1/2 2000# SS W/LKG HDL
MV 2	2	339-02423	VALVE-BALL HOKE 1/4 6000# SS
LLS 7	1	485-02138	SWITCH-RECLVL MPHY L1100 EX1.5
G 33	2	741-07251	GAUGE-PRES 1000#/B BM PM GF WIKA

DESIGNATOR	QTY	PART NUMBER	DESCRIPTION
------------	-----	-------------	-------------

G 30	2	741-07248	GAUGE-PRES 6000#/B BM PM GF WIKA
G 27	1	741-07245	GAUGE-PRES 3000#/B BM PM GF WIKA
G 23	1	741-07241	GAUGE-PRES 300#/B BM PM GF WIKA
G 22	1	741-07240	GAUGE-PRES 200#/B BM PM GF WIKA
F 100	1	772-07273	FILTER-FINITE SAE-32 MS8S PART
F 105	1	770-07393	STRAINER-BASKET TYPE 2 CL150&C
F 74	2	772-07261	FILTER-FINITE SAE-16 COALESCING W/ELEMNT
F 25	1	772-07237	FILTER-FINITE SAE-16 GRD4 5000#
F 22	1	772-07235	FILTER-FINITE SAE-16 GR10 5000#
CV 55	4	336-07266	VALVE-CHECK HOKE 3/8 FML SS 6000#
CV 48	1	336-07258	VALVE-CHECK KF 2 WAFER CL150
CV 50	1	336-07260	VALVE-CHECK HOKE 1/2 FML 6000#
BV 7	1	330-07281	VALVE-PURGE 1/4 MNPT 6000# SS
BV 6	2	338-07234	VALVE-PURGE 1/4 FML 6000# KF

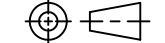
DESIGNATOR	QTY	PART NUMBER	DESCRIPTION
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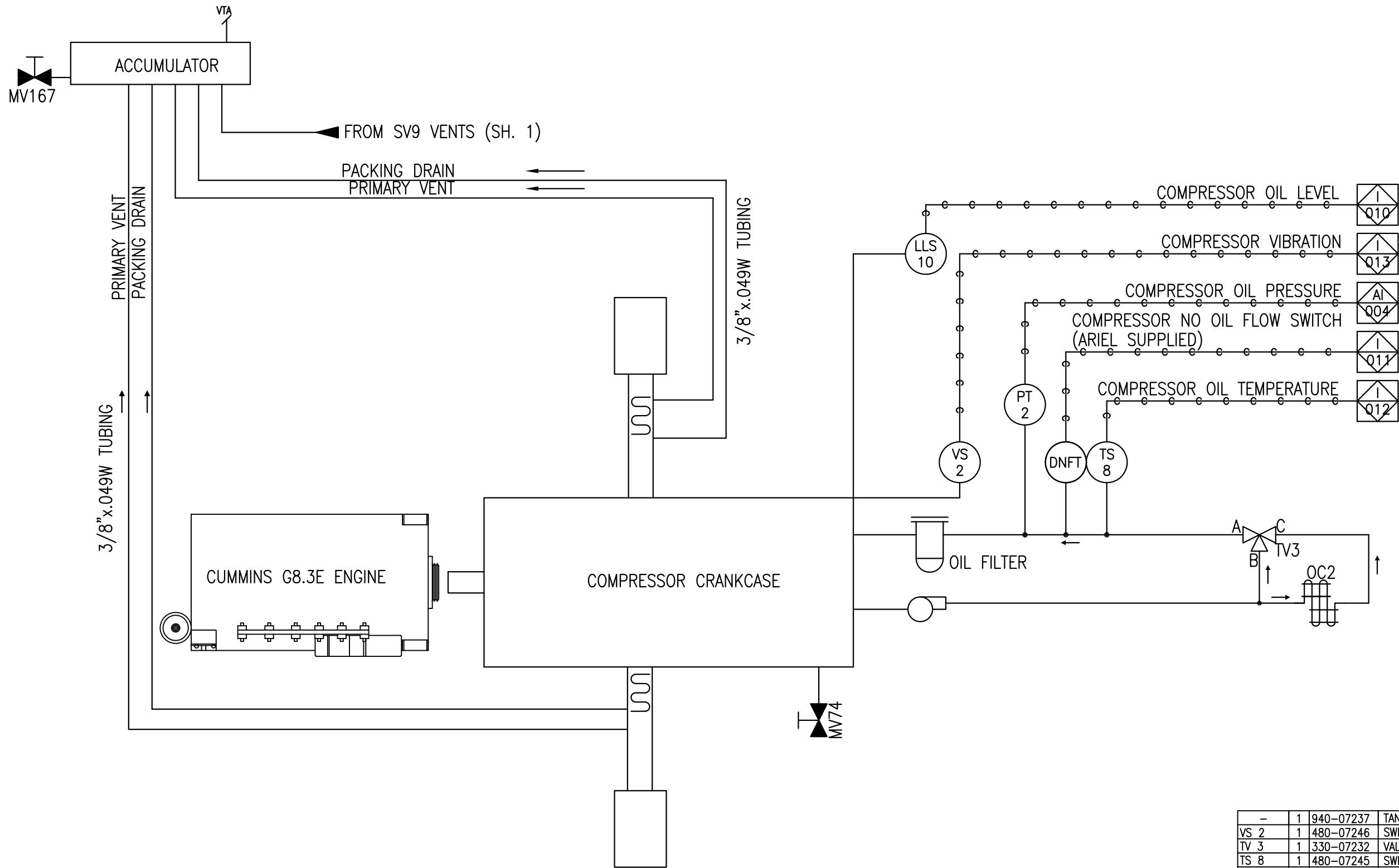
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
C	0/28/2010 ALO	UPDATED SETPOINTS			
B	10/21/10 ADM	CHANGED SRV37 TO SRV243			
A	8/30/10 ADM	CORRECTED IO LABELS CHG'D TO 1/2" VENT LINES	D	11/17/10 ADM	ADDED DETAILS TO SH3



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15 PLUMB STREET
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UNLESS OTHERWISE SPECIFIED		TITLE	
 BREAK SHARP EDGES ALL DIMENSIONS IN INCHES		2THROW, 3STAGE COMPRESSOR PIPING SYSTEM	
FRACTIONAL	±.125	CUSTOMER	WESD
TWO PLACE DECIMAL	±.010	SHEET	1/4
THREE PLACE DECIMAL	±.005	SCALE	1:2
ANGLES	±1°	DRAWN BY	ADM
		DATE	6/10/09
		PROJECT NO.	30495
		DRAWING NO.	A05-20-30495
		REV.	D



-	1	940-07237	TANK-OIL RESERVOIR 5 GAL 1/2FNPT
VS 2	1	480-07246	SWITCH-VIBRATION MURPHY NON-EX
TV 3	1	330-07232	VALVE-THERMOSTATIC 1 3-WAY 100°F
TS 8	1	480-07245	SWITCH-TEMP 190°F 1/2 MNPT
PT 2	1	410-03115	TRANSDUCER-PRESSURE GEMS 0-100# IS/UL
OC 2	1	150-07232	COOLER-OIL 8000 BTU/HR 1 FNPT
MV 167	1	334-07284	VALVE-BALL 1/4 SS 600# BRZ W/LKG HDL
MV 74	1	334-07264	VALVE-BALL MV 1 600# BRZ W/LKG HDL
LLS 10	1	485-07229	SWITCH-LIQLVL MURPHY L150K1 25# MAX IN
DESIGNATOR		QTY	PART NUMBER DESCRIPTION

C	10/28/10 ALO	CHANGED SRV37 TO SRV243			
B	10/21/10 ADM	CHANGED SRV37 TO SRV243			
A	8/30/10 ADM	CORRECTED IO LABELS CHG'D TO 1/2" VENT LINES			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION

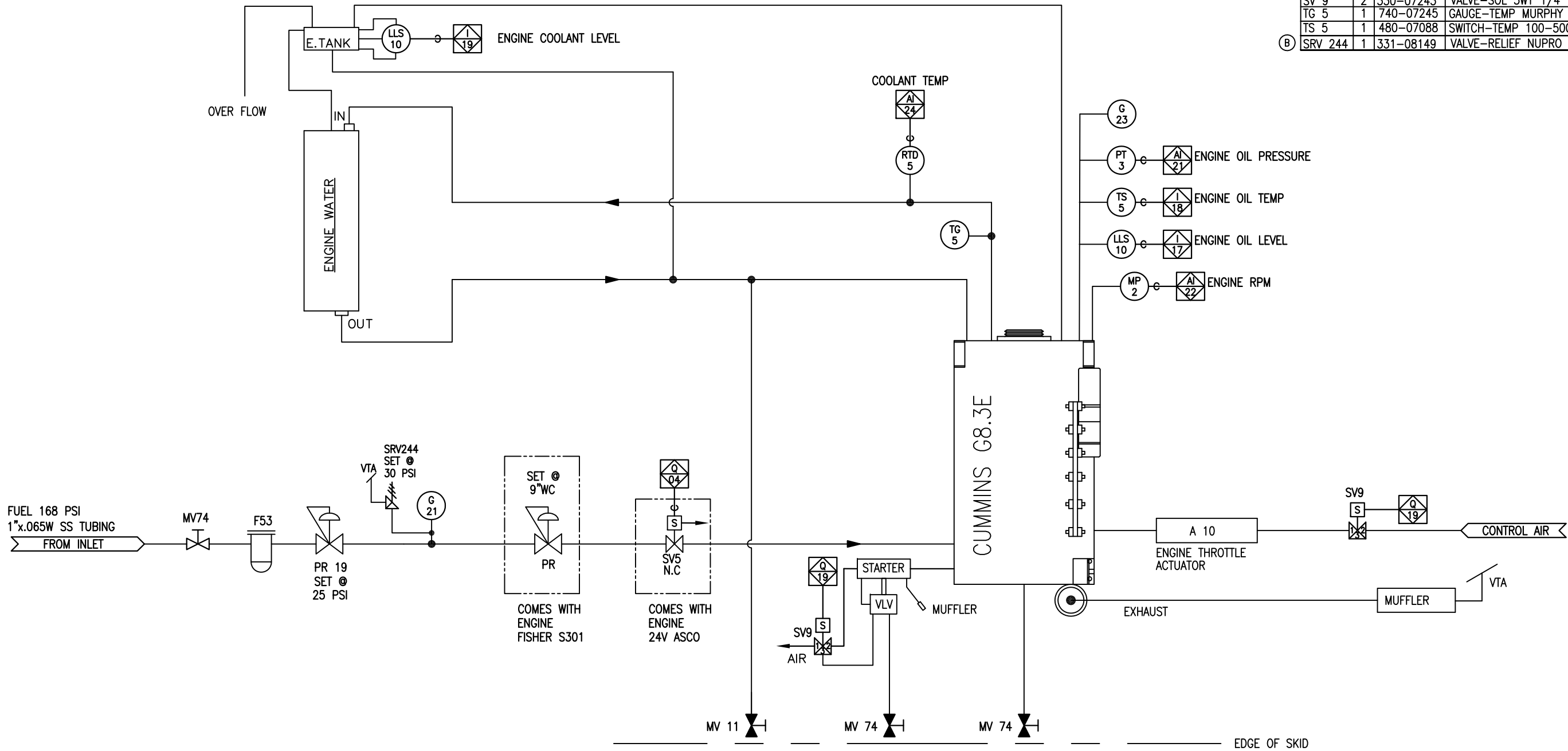


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UNLESS OTHERWISE SPECIFIED
BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES
FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE		TWO THROW, FOUR STAGE COMPRESSOR SENSING DEVICES AND SETTINGS		
CUSTOMER		WESD		PROJECT NO. 30495
SHEET	2/4	SCALE	1:2	DRAWING NO. A05-20-30495
DRAWN BY	ADM	DATE	6/10/10	REV. D

DESIGNATOR	QTY	PART NUMBER	DESCRIPTION
A 10	1	402-07237	ACTUATOR-PNEU WATTS PAS500
F 53	1	770-07282	FILTER-FINITE 1" H-SERIES 500#
G 23	1	741-07241	GAUGE-PRES 300#/B BM GF WIKA
G 21	1	741-07239	GAUGE-PRES 30#/B BM PM GF WIK
LLS 10	2	485-07229	SWITCH-LIQLVL MURPHY L150K1
MP 2	1	700-07237	PICK UP-MAGNETIC EXP 5/8-18
MV 11	1	334-03567	VALVE-BALL MV 3/4 FML BRZ 600#
MV 74	2	334-07264	VALVE-BALL MV 1 FML BRZ BA100
PR 19	1	990-05861	REG-1"15-40# SPRG 1/4ORF 627-112
PT 3	1	410-04408	TRANSD-GEMS 0-300# IS/UL
RTD 5	1	700-07283	RTD-TIP SENSITIVE 58-500DEGF
SV 5	1	330-05099	VALVE-SOL 2WY 1 1/4 120V UL EX
SV 9	2	330-07243	VALVE-SOL 3WY 1/4 150# 120V NC BRASS UL
TG 5	1	740-07245	GAUGE-TEMP MURPHY 130-250F 2"
TS 5	1	480-07088	SWITCH-TEMP 100-500F NO/NC EX
SRV 244	1	331-08149	VALVE-RELIEF NUPRO 10-225#



REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
C	10/28/10 ALO	CHANGED SRV37 TO SRV243			
B	10/21/10 ADM	CHANGED SRV37 TO SRV243			
A	8/30/10 ADM	CORRECTED IO LABELS CHG'D TO 1/2" VENT LINES			

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UNLESS OTHERWISE SPECIFIED		TITLE			
BREAK SHARP EDGES		TWO THROW, FOUR STAGE COMPRESSOR SENSING DEVICES AND SETTINGS			
ALL DIMENSIONS IN INCHES		CUSTOMER		PROJECT NO.	
FRACTIONAL		WESD		30495	
TWO PLACE DECIMAL		SHEET		DRAWING NO.	
THREE PLACE DECIMAL		3/4		A05-20-30495	
ANGLES		DRAWN BY		REV.	
		ADM		D	
		DATE		6/10/10	

LEGEND			
AI	= ANALOG INPUT	OPL	= ORIFICE PLATE
BV	= BLEED VALVE	PR	= PRESSURE REGULATOR
CV	= CHECK VALVE	PT	= PRESSURE TRANSDUCER
F	= FILTER	PV	= PRESSURE VESSEL
G	= PRESSURE GAUGE	RTD	= RESISTIVE TEMPERATURE DEVICE
I	= DIGITAL INPUT	SRV	= SAFETY RELIEF VALVE
LLG	= LIQUID LEVEL GAUGE	SV	= SOLENOID VALVE
LLS	= LEVEL SWITCH	T	= THERMOMETER
MLV	= NEEDLE VALVE	TS	= TEMPERATURE SWITCH
MV	= MANUAL/ACTUATOR VALVE	TV	= THERMOSTATIC VALVE
N.C	= NORMAL CLOSE	VS	= VIBRATION SWITCH
N.O	= NORMAL OPEN	VTA	= VENT TO ATMOSPHERE
OC	= OIL COOLER		

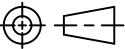
C	10/28/10 ALO	CHANGED SRV37 TO SRV243			
B	10/21/10 ADM	CHANGED SRV37 TO SRV243			
A	8/30/10 ADM	CORRECTED IO LABELS CHG'D TO 1/2" VENT LINES			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



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BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES

FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE
TWO THROW, FOUR STAGE COMPRESSOR
SENSING DEVICES AND SETTINGS

CUSTOMER
WESD

PROJECT NO.
30495

SHEET
4/4

SCALE
1:2

DRAWN BY
ADM

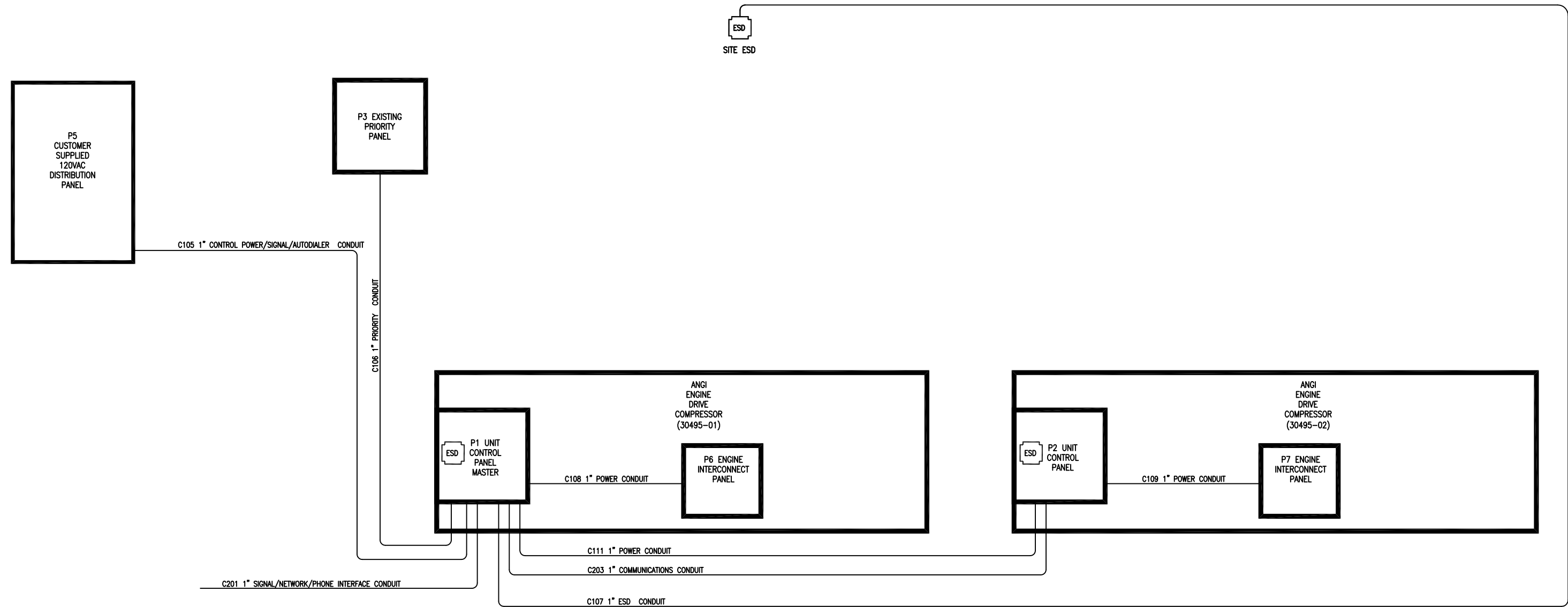
DATE
6/10/10

DRAWING NO.
A05-20-30495

REV.
D

SENSING DEVICES								
LOCATION OF DEVICE IN SYSTEM		RANGE OF DEVICE	NORMAL OPERATING	SET LOW	SET HIGH	RELIEF VALVE SETTING	START	STOP
AI001	INLET PRESSURE	0-300 PSI	34-50 PSI	30 PSI	55 PSI	275 PSI		
AI002	FINAL DISCHARGE PRESSURE	0-6000 PSI	4545 PSI	-10 PSI	4500 PSI		3000 PSI	4000 PSI
AI003	RESERVED (FINAL TEMPERATURE)	-	-	-	-			
AI004	COMPRESSOR OIL PRESSURE	0-100 PSI	60 PSI	35 PSI	100 PSI			
AI005	RECEIVER TANK PRESSURE	0-1000 PSI	55-324 PSI	-10 PSI	550 PSI	600 PSI		
AI006	RESERVED (LOW BANK PRESSURE)	-	-	-	-			
AI007	RESERVED (MID BANK PRESSURE)	-	-	-	-			
AI008	RESERVED (HIGH BANK PRESSURE)	-	-	-	-			
AI009	1ST STG DISCHARGE TEMPERATURE	32-392°F	284-289°F	-30°F	350°F			
AI010	1ST STG DISCHARGE PRESSURE	0-600 PSI	168-226 PSI	-10 PSI	340 PSI	350 PSI		
AI011	2ND STG DISCHARGE TEMPERATURE	32-392°F	268-275°F	-30°F	350°F			
AI012	2ND STG DISCHARGE PRESSURE	0-1000 PSI	417-534 PSI	-10 PSI	750 PSI	800 PSI		
AI013	3RD STG DISCHARGE TEMPERATURE	32-392°F	305-311°F	-30°F	350°F			
AI014	3RD STG DISCHARGE PRESSURE	0-3000 PSI	1311-1601 PSI	-10 PSI	2300 PSI	2400 PSI		
AI015	AFTER COOLER TEMERATURE	32-392°F	90 PSI	0°F	200°F			
AI016	RESERVED (GAS DETECTOR)	100% LEL	-	20%	40%			
AI017	ENGINE COOLANT TEMPERATURE	32-392°F	195°F	0°F	250°F			
AI018	ENGINE RPM	0-4000 RPM	1800 RPM	1200 RPM	2100 RPM			
AI019	BATTERY VOLTAGE	-	-	-	-			
AI020	RESERVED (CONTROL AIR PRESSURE)	-	-	-	-			
AI021	ENGINE OIL PRESSURE	0-300 PSI	230 PSI	30 PSI	300 PSI			
AI022	RESERVED	-	-	-	-			
AI023	4TH STG DISCHARGE TEMPERATURE	32-392°F	294-330°F	-30°F	350°F			
AI024	4TH STG DISCHARGE PRESSURE	0-6000 PSI	4545 PSI	-10 PSI	4800 PSI	5500 PSI		
I009	RECEIVER LIQUID LEVEL	-	-	AT SWITCH	-			
I010	COMPRESSOR OIL LEVEL	N/A	-	SIGHT GLASS	-			
I011	COMPRESSOR OIL NO FLOW SWITCH	(3 MINUTE TIMER)	-	> 3 MINUTES	-			
I012	COMPRESSOR OIL TEMPERATURE	N/A	110°F	-	180°F			
I013	COMPRESSOR VIBRATION SWITCH	N/A	-	-	-			
I014	MOTOR FAULT	N/A	-	-	-			
I015	RESERVED (MASTER KEYSWITCH)	N/A	-	-	-			
I016	RESERVED (SCROLL KEYSWITCH)	N/A	-	-	-			
I017	ENGINE OIL LEVEL SWITCH	N/A	-	-	-			
I018	RESERVED	N/A	-	-	-			
I019	ENGINE COOLANT LEVEL	N/A	-	-	-			
I020	ENGINE OIL TEMPERATURE	100 to 500°F	AMBIENT	-	-			
I021	AFTER COOLER LEVEL	N/A						

NOTE:
THESE SETTINGS ARE APPROXIMATE, MAY BE CHANGED OUT IN THE FIELD.

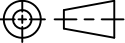


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REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



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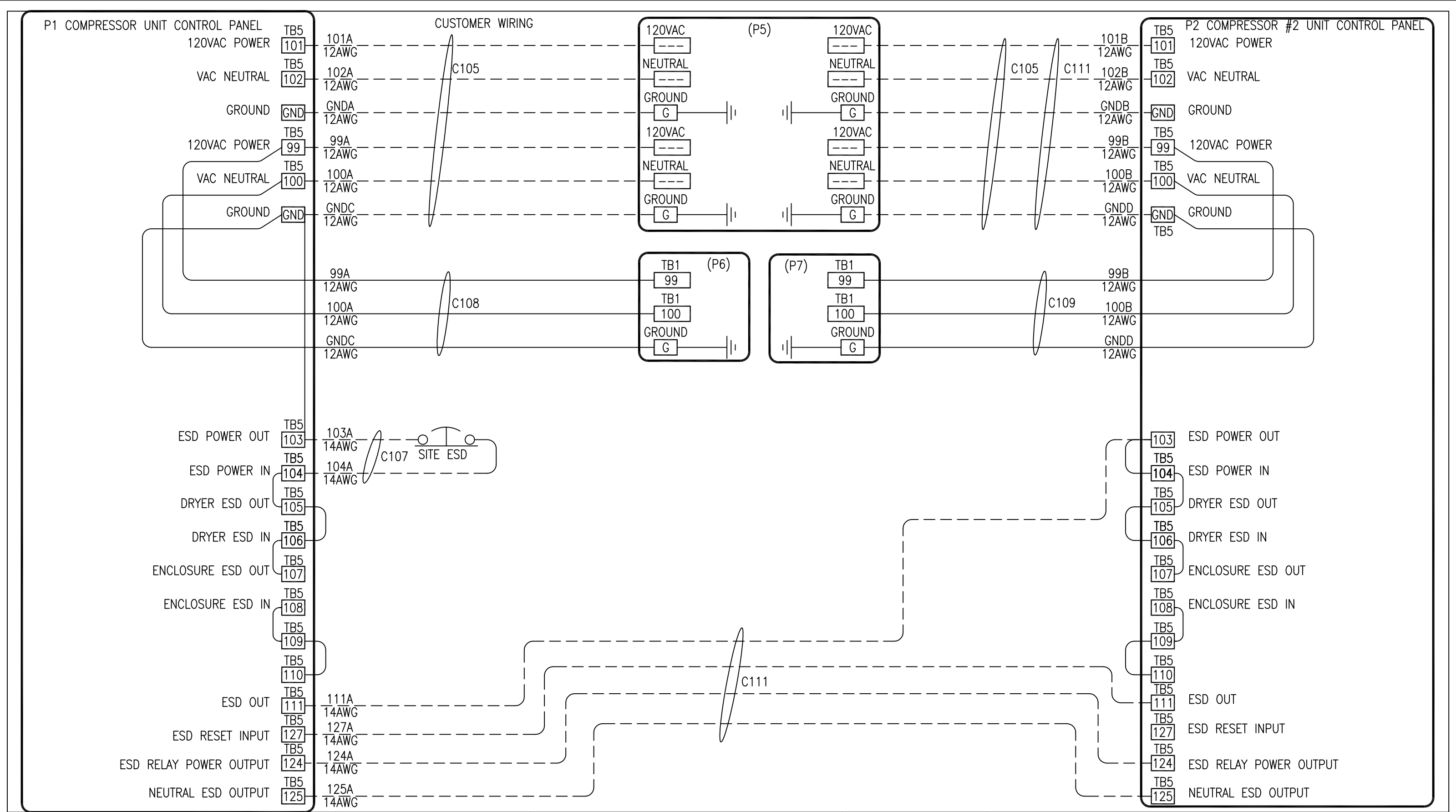
BREAK SHARP EDGES

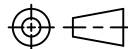
ALL DIMENSIONS IN INCHES

FRACTIONAL	±.125
TWO PLACE DECIMAL	±.010
THREE PLACE DECIMAL	±.005
ANGLES	±1°

TITLE SINGLE LINE/CUSTOMER INTERCONNECT DETAILS ENGINE DRIVE/ARIEL MINI SKID DUAL COMPRESSOR		
CUSTOMER TRINIUM		PROJECT NO. 30495
SHEET 2/5	SCALE NA	DRAWING NO. A80-50-30495
DRAWN BY PJH	DATE 9/2/10	

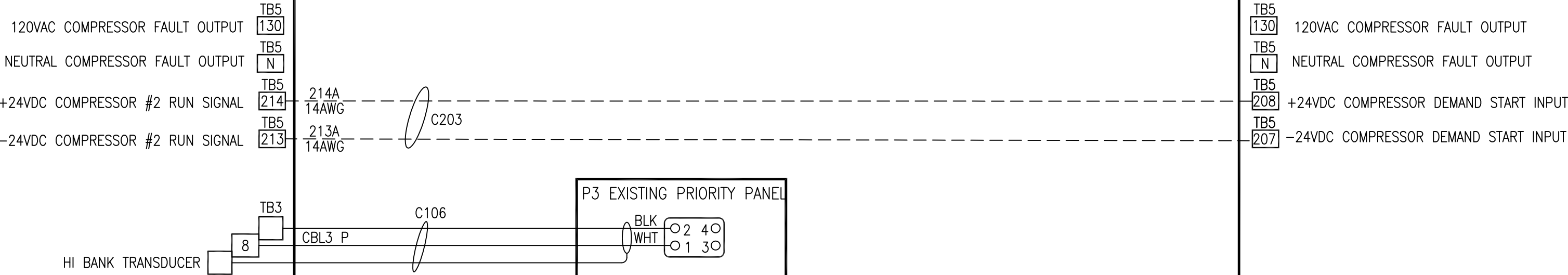
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							CUSTOMER TRINIUM		PROJECT NO. 30495		
A	12/06/10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE						SHEET 3/5	SCALE NA	DRAWING NO. A80-50-30495	REV. A
REV	DATE/BY	DESCRIPTION			REV		DATE/BY	DESCRIPTION			

P1 COMPRESSOR UNIT CONTROL PANEL

P2 COMPRESSOR #2 UNIT CONTROL PANEL



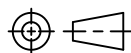
A	12/06/10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



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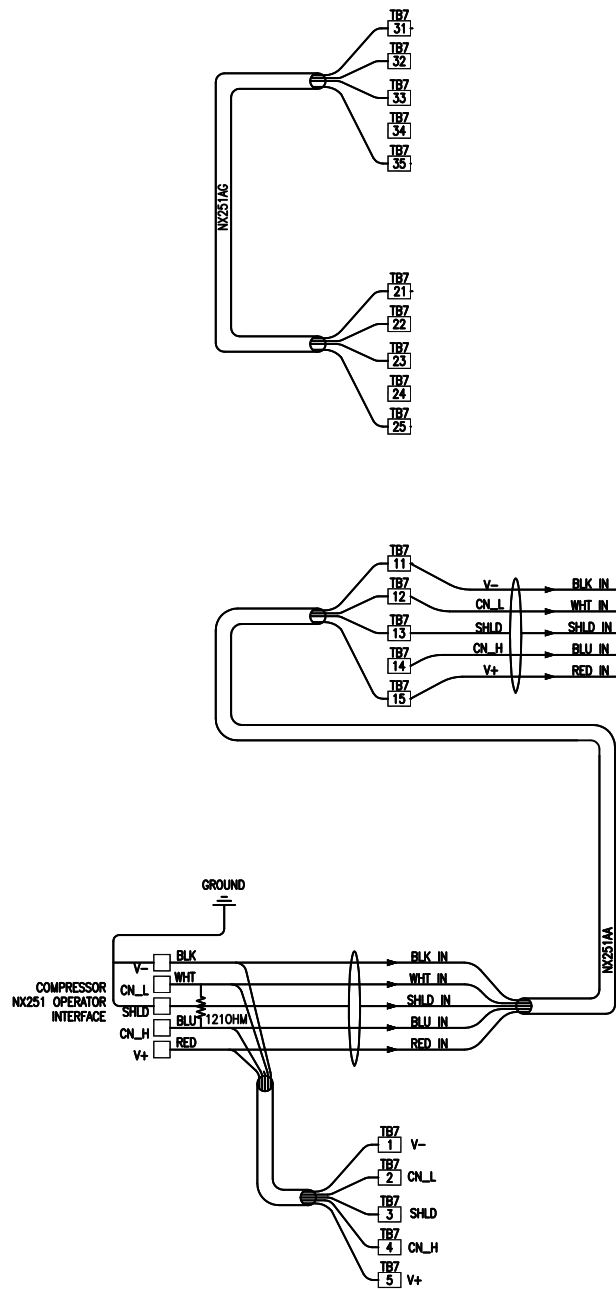
BREAK SHARP EDGES

ALL DIMENSIONS IN INCHES

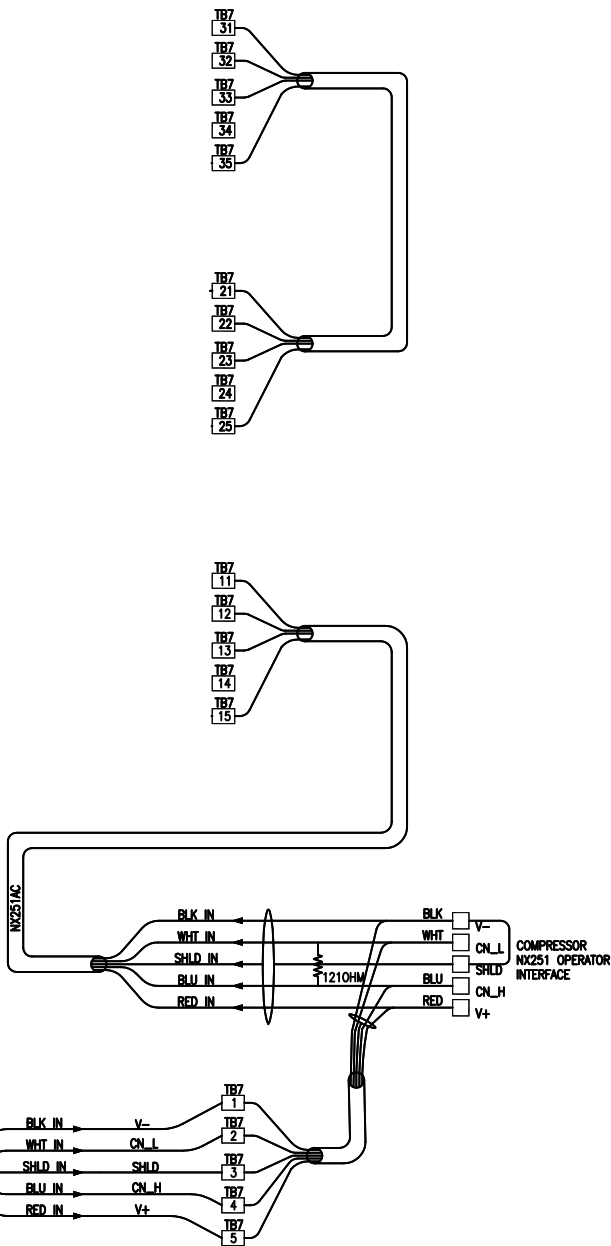
FRACTIONAL	±.125
TWO PLACE DECIMAL	±.010
THREE PLACE DECIMAL	±.005
ANGLES	±1°

TITLE						SINGLE LINE/CUSTOMER INTERCONNECT DETAILS						
						ENGINE DRIVE/ARIEL MINI SKID DUAL COMPRESSOR						
CUSTOMER			TRINIUM			PROJECT NO.			30495			
SHEET		4/5		SCALE		NA		DRAWING NO.			REV.	
DRAWN BY		PJH		DATE		9/2/10		A80-50-30495			A	

P1 COMPRESSOR #1 UNIT CONTROL PANEL



P2 COMPRESSOR #2 UNIT CONTROL PANEL



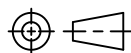
A	12/06/10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



ANGI ENERGY SYSTEMS
15 PLUMB STREET
MILTON, WI 53563
PH: 608-868-4626
FX: 608-868-2723

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UNLESS OTHERWISE SPECIFIED

 BREAK SHARP EDGES

ALL DIMENSIONS IN INCHES

FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE SINGLE LINE/CUSTOMER INTERCONNECT DETAILS ENGINE DRIVE/ARIEL MINI SKID DUAL COMPRESSOR					
CUSTOMER TRINIUM			PROJECT NO. 30495		
SHEET 5/5	SCALE NA		DRAWING NO. A80-50-30495		REV. A
DRAWN BY PJH	DATE 9/2/10				



DRAWING INDEX	
PAGE	DESCRIPTION
1	INDEX AND GENERAL INFORMATION
2	110VAC POWER POWER DISTRIBUTION
3	24VDC POWER POWER DISTRIBUTION
4	PLC DIGITAL/ANALOG I/O CARD #1
5	PLC DIGITAL/ANALOG I/O CARD #2
6	PLC ANALOG CARD#3
7	PLC DIGITAL/ANALOG I/O CARD #4
8	COMPONENT WIRING DETAILS – PLC POWER & COMMUNICATIONS
9	LIGHTING/GAS DETECTOR BEACON INTERCONNECT
10	ASSEMBLY BOM
11	ASSEMBLY FRONT PANEL DETAILS
12	ASSEMBLY FRONT PANEL KNOCKOUTS
13	ASSEMBLY BACK PANEL DETAILS
14	ASSEMBLY BACK PANEL DETAILS
15	ASSEMBLY BACK PANEL DRILL PATTERN
16	CONTROL COMPONENTS DETAILS
17	CONTROL COMPONENTS DETAILS
18	ENCLOSURE BOTTOM DETAILS

NOTE: PROPER GROUNDING AND BONDING ARE NECESSARY FOR THIS EQUIPMENT TO PERFORM AS DESIGNED. ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO ARTICLE 250 OF THE 2005 NEC FOR MORE INFORMATION.

FUSE CHART		
FUSE #	ANGI PART NUMBER	AMPS
FU-1	440-07273	10
FU-2	440-07307	3
FU-3	440-07307	3
FU-4	440-07307	3
FU-5	440-07307	3
FU-6	440-07307	3
FU-7	440-07307	3
FU-8	440-07307	3
FU-9	440-07273	10
FU-10	440-07254	5
FU-11	440-07307	3
FU-12	440-07307	3
FU-13	440-07307	3
FU-14	440-07307	3
FU-15	440-07307	3
FU-16	440-07307	3

NOTE:

ESD CIRCUIT – SELECT SETTINGS FOR (LOCAL OR SITE SUPPLIED ESD POWER)

– SEE PAGE 2, FOR ESD POWER CIRCUIT – WIRE CONNECTION REQUIREMENTS

– ADD OR REMOVE WIRE #'s 103 & 125 AS NECESSARY (JOB SITE SPECIFIC)

– VERIFY CORRECT SETTINGS FOR "ESD" SUPPLY CIRCUIT POWER AT EACH JOB SITE

COMPRESSOR LOAD REQUIREMENTS				
CONTROL POWER	COMPRESSOR MOTOR	FAN MOTOR	PRELUBE MOTOR	
NX 251	ENGINE	DIRECT DRIVE	NA	
120VAC				
1 PHASE				
60HZ				
10AMP				

CONTROLLED DRAWING

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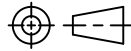
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



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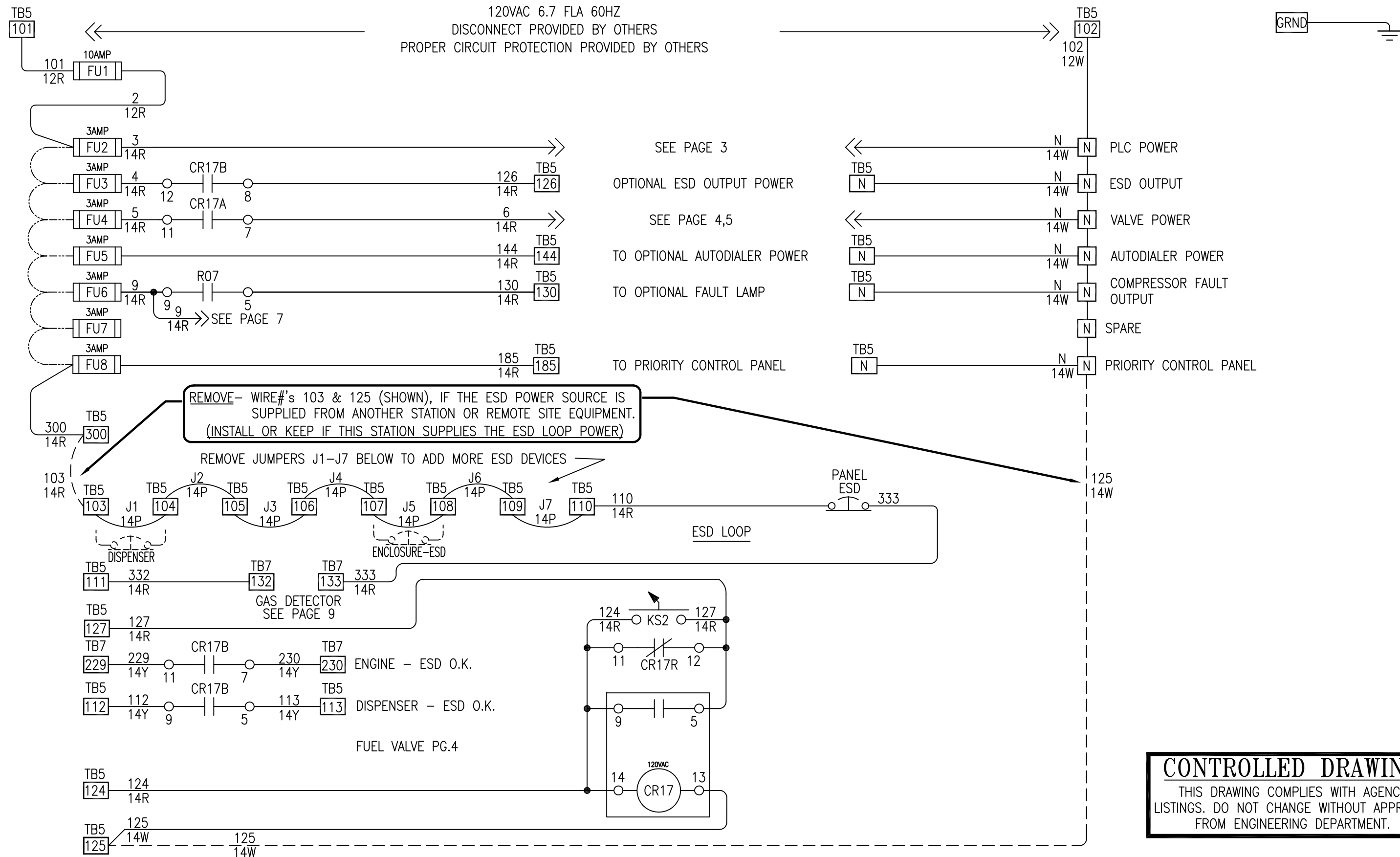
UNLESS OTHERWISE SPECIFIED

 BREAK SHARP EDGES

ALL DIMENSIONS IN INCHES

FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE NX251-ELECTRICAL SCHEMATIC/ENGINE DRIVE ARIEL FOUR STAGE/LEAD COMPRESSOR UNIT CONTROL PANEL			
CUSTOMER TRINIUM		PROJECT NO. 30495	
SHEET 1/19	SCALE 1:1	DRAWING NO. E03-30-30495-01	REV. B
DRAWN BY PJH	DATE 7/28/10		



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REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
B	12-06-10 NDA	AS BUILT ECN#101206-02			
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			



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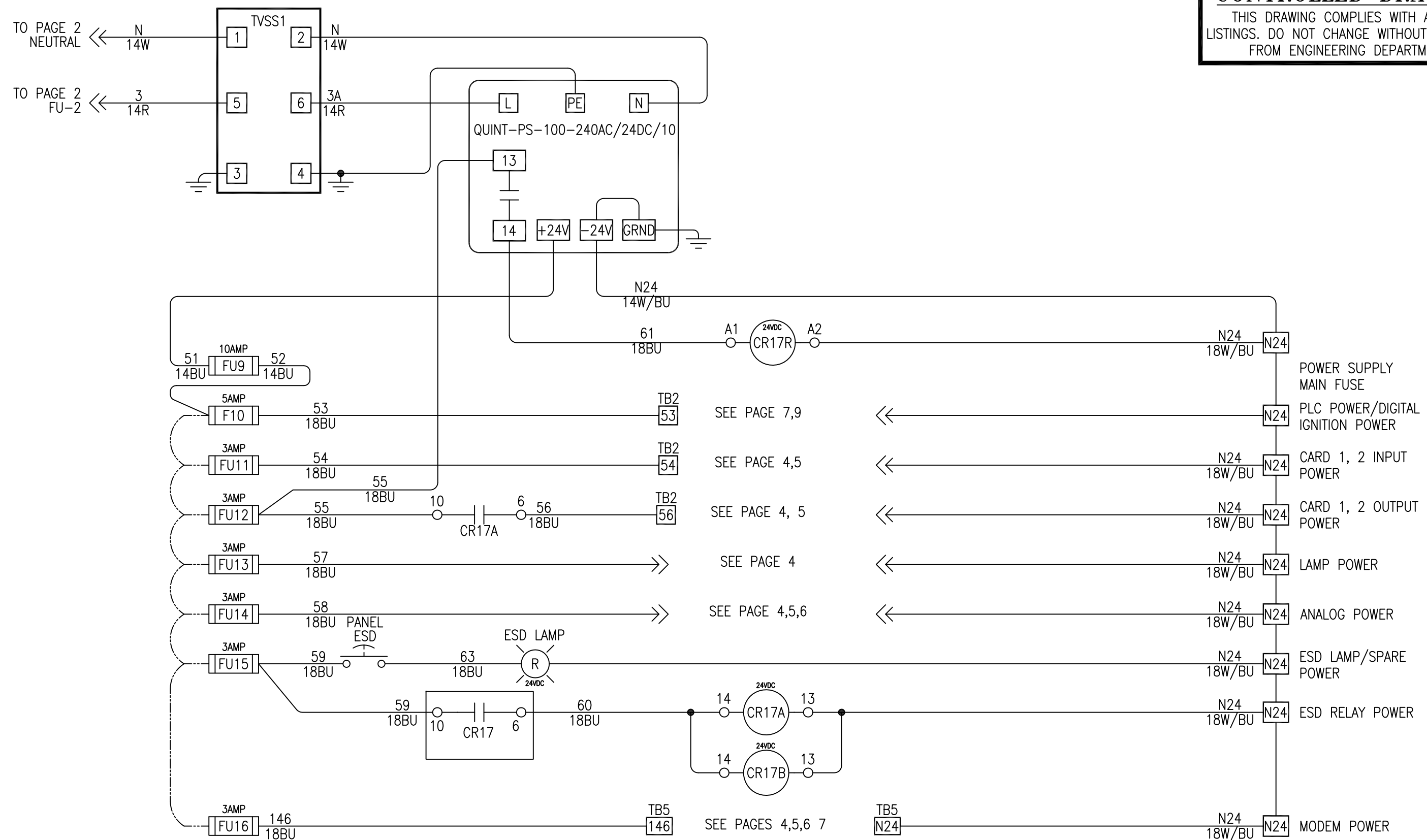
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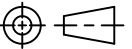
UNLESS OTHERWISE SPECIFIED

BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES
FRACTIONAL
TWO PLACE DECIMAL
THREE PLACE DECIMAL
ANGLES

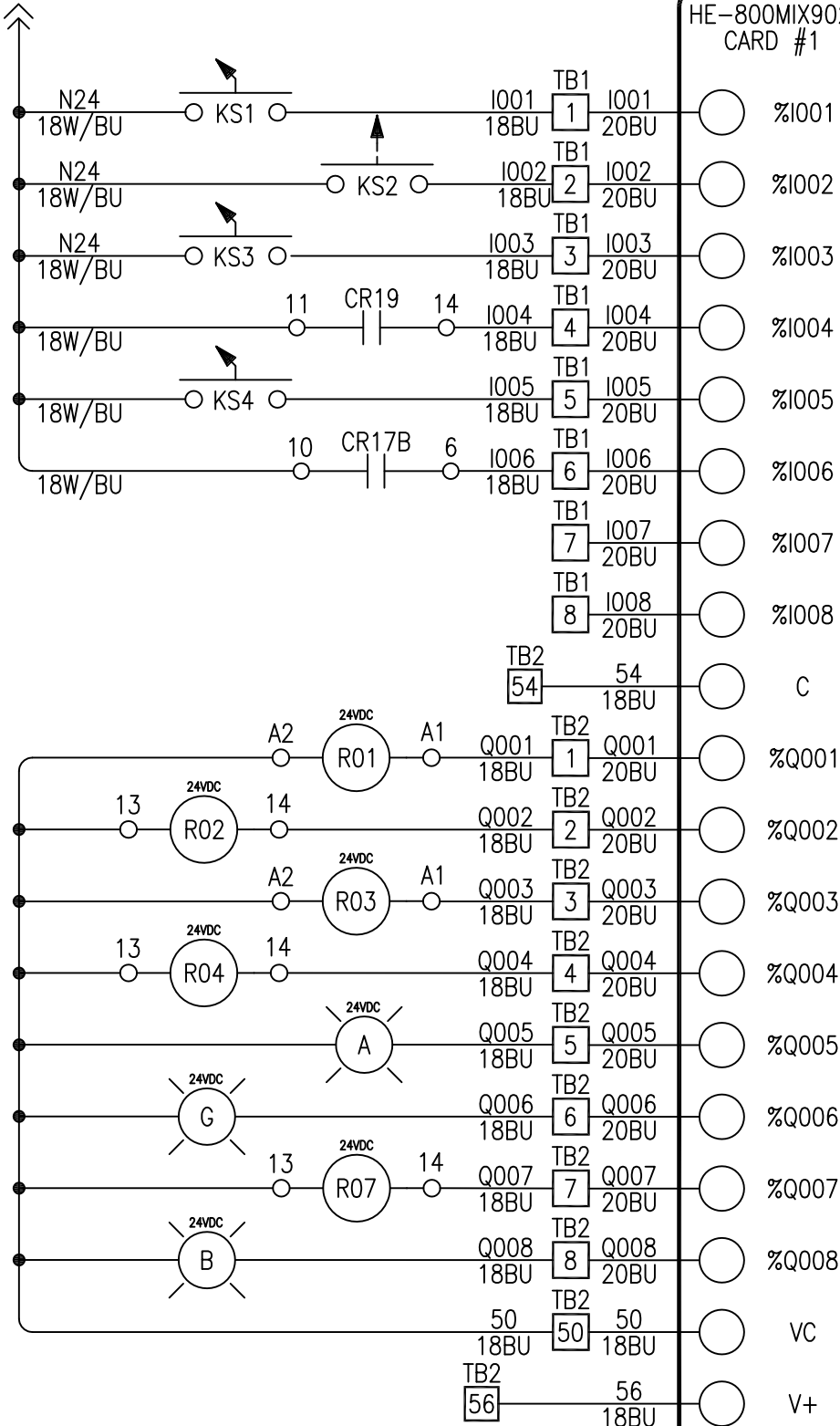
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CUSTOMER TRINIUM	SHEET 2/19	SCALE 1:1	DRAWING NO. E03-30-30495-01
DRAWN BY PJH	DATE 7/28/10	REV. B	

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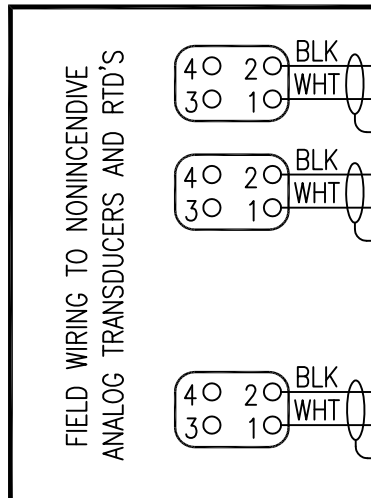
							ANGI ENERGY SYSTEMS 15 PLUMB STREET MILTON, WI 53563 PH: 608-868-4626 FX: 608-868-2723	UNLESS OTHERWISE SPECIFIED  BREAK SHARP EDGES ALL DIMENSIONS IN INCHES FRACTIONAL ±.125 TWO PLACE DECIMAL ±.010 THREE PLACE DECIMAL ±.005 ANGLES ±1°	TITLE NX 251-ENGINE DRIVE ARIEL FOUR STAGE/LEAD COMPRESSOR UNIT CONTROL PANEL			
									CUSTOMER TRINIUM		PROJECT NO. 30495	
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01							SHEET 3/19	SCALE 1:1	DRAWING NO. E03-30-30495-01	
REV	DATE/BY	DESCRIPTION			REV	DATE/BY	DESCRIPTION		DRAWN BY PJH	DATE 7/28/10		REV. B

TO N24
SEE PAGE 3

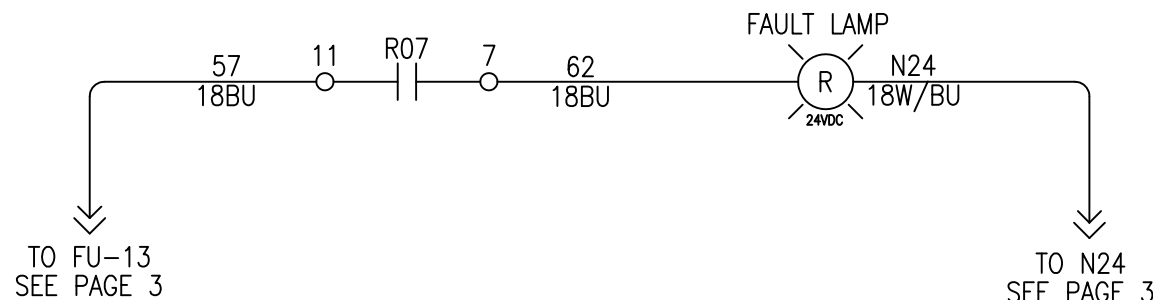
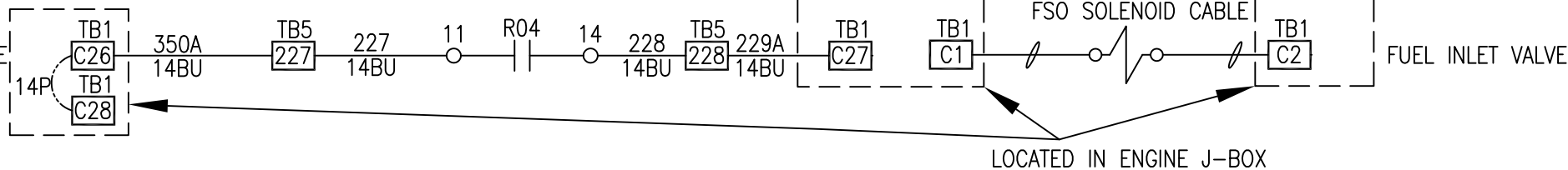
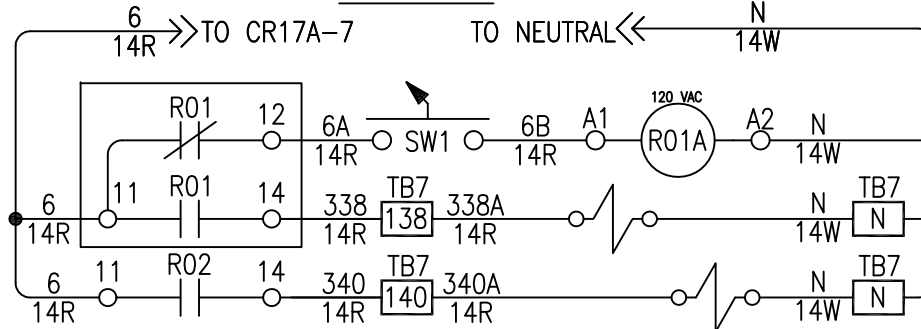


HE-800MIX902
CARD #1

OFF/ON KEYSWITCH
RESET KEYSWITCH
LOCAL REMOTE KEYSWITCH
REMOTE START
DEMAND START
ESD SHUTDOWN
SPARE
RESERVED
C
INLET VALVE
LOAD VALVE
RESERVED
FUEL INLET VALVE
STANDBY LAMP
RUN LAMP
FAULT LAMP
WARNING LAMP
VC
V+



SEE PAGE 2



INT/DIN/GRD

HE-800MIX902
CARD #1

%AI001 INLET PRESSURE
%AI002 FINAL DISCHARGE PSI
%AI003 FINAL TEMP
%AI004 COMP OIL PSI
C2 ANALOG INPUT COMMON
%AQ001 NOT USED
%AQ002 NOT USED
C3 ANALOG OUTPUT COMMON

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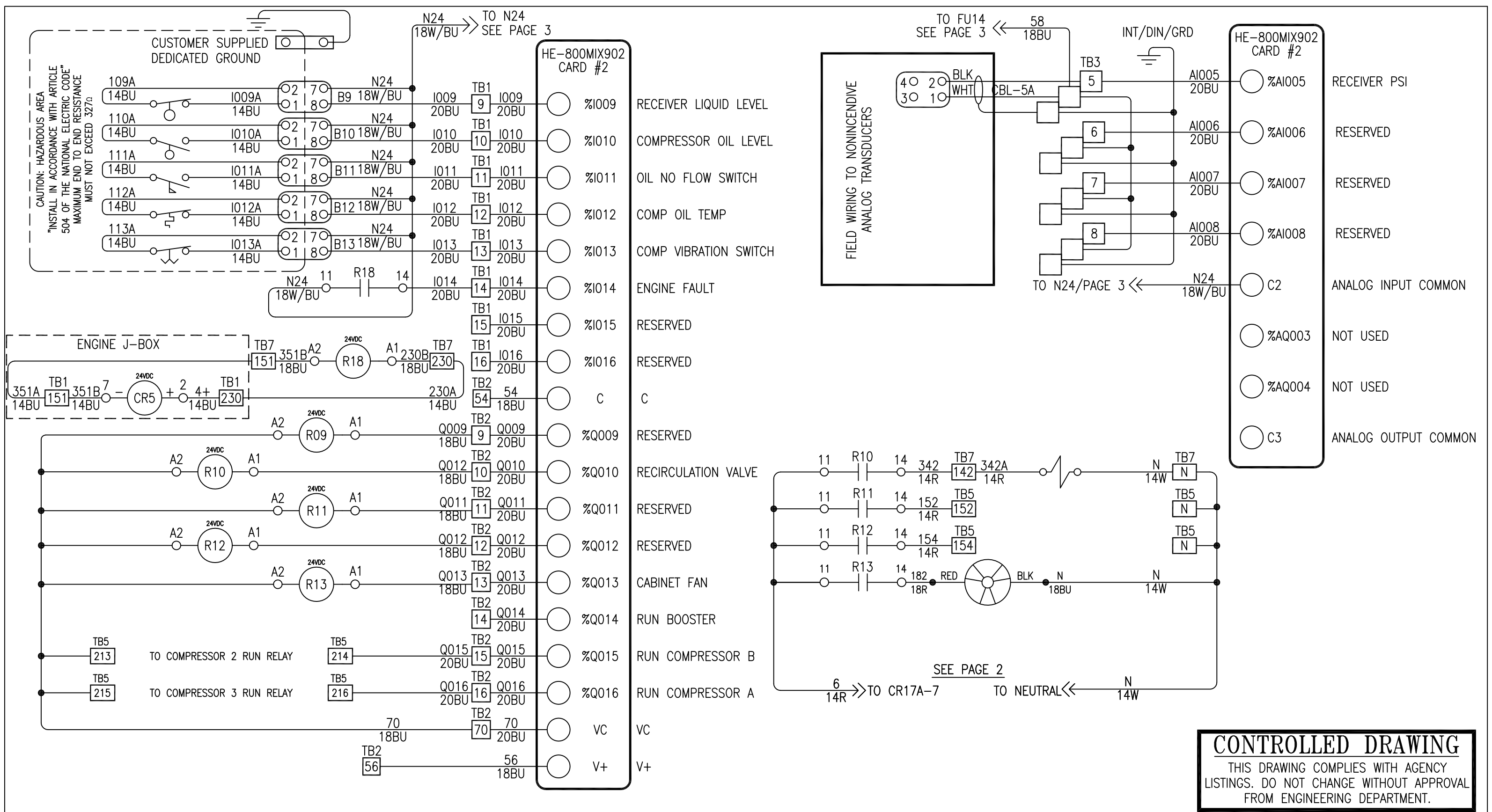


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BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES
FRACTIONAL
TWO PLACE DECIMAL
THREE PLACE DECIMAL
ANGLES

TITLE				PROJECT NO.	
NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE ARIEL FOUR STAGE/LEAD COMPRESSOR UNIT CONTROL PANEL				30495	
CUSTOMER		TRINIUM		DRAWING NO.	
SHEET		4/19		E03-30-30495-01	
SCALE		1:1		REV.	
DATE		7/28/10		B	



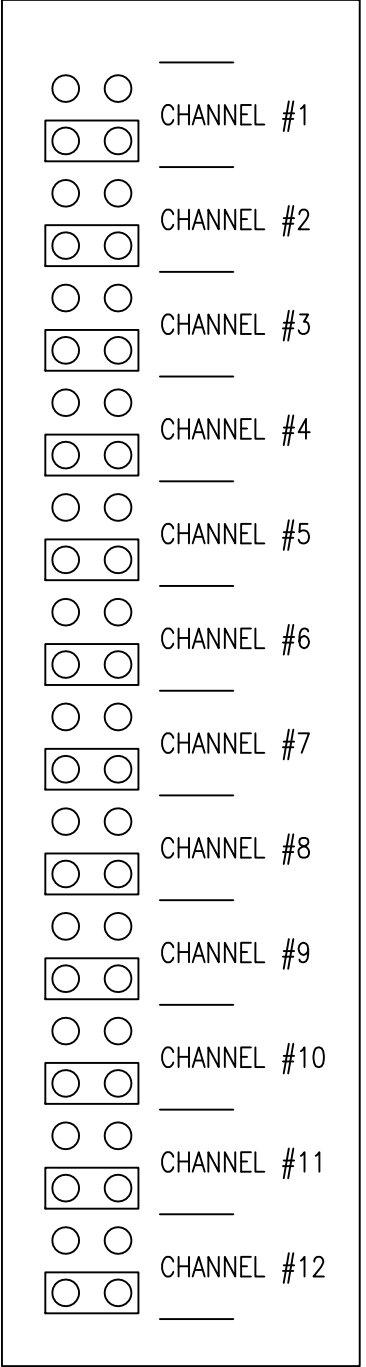
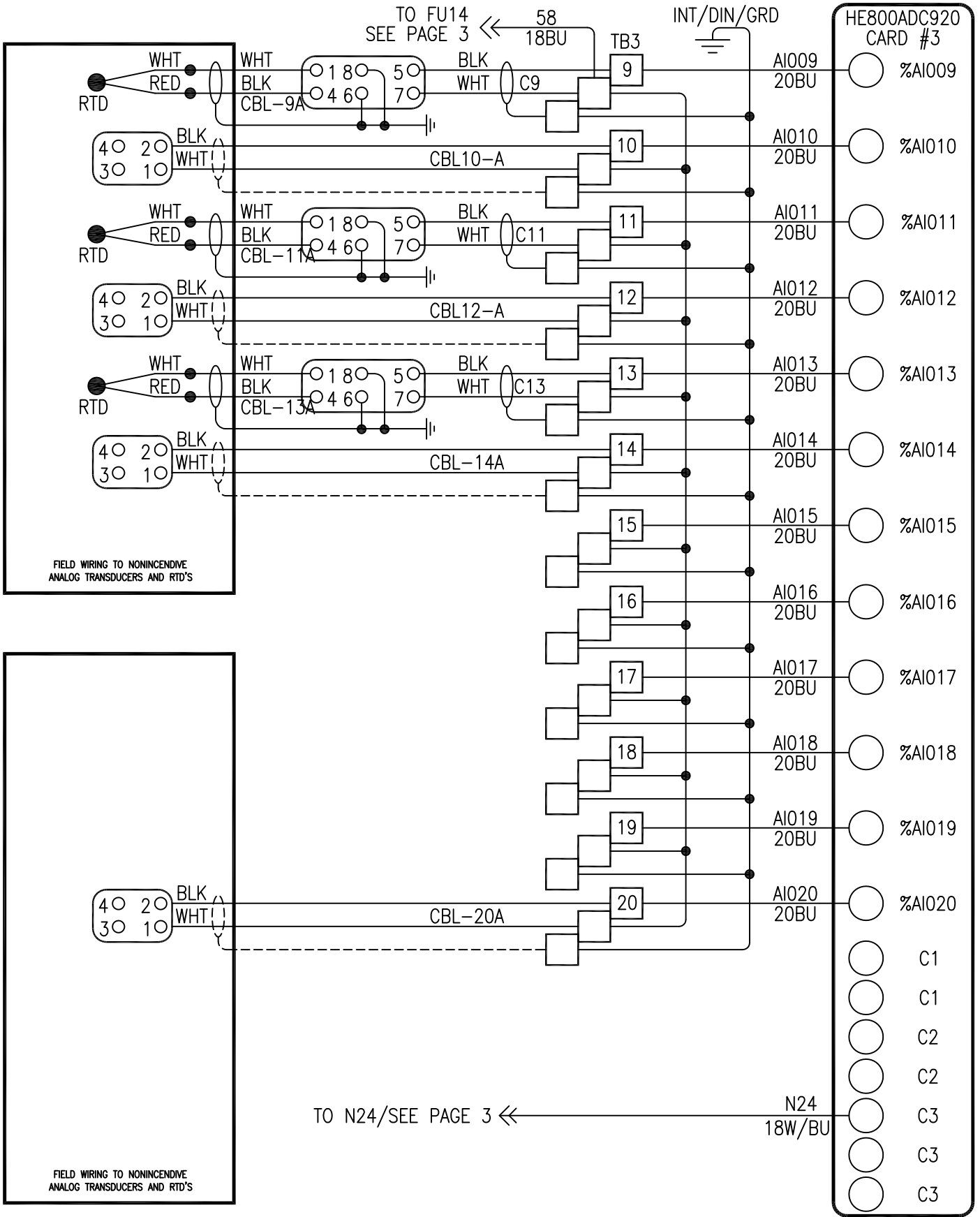
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BREAK SHARP EDGES		CUSTOMER TRINIUM		PROJECT NO. 30495	
ALL DIMENSIONS IN INCHES		SHEET 5/19		DRAWING NO. E03-30-30495-01	
FRACTIONAL TWO PLACE DECIMAL THREE PLACE DECIMAL ANGLES		SCALE 1:1		REV. B	
±.125 ±.010 ±.005 ±1°		DRAWN BY PJH		DATE 7/28/10	



INPUT JUMPER CONFIGURATION

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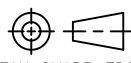


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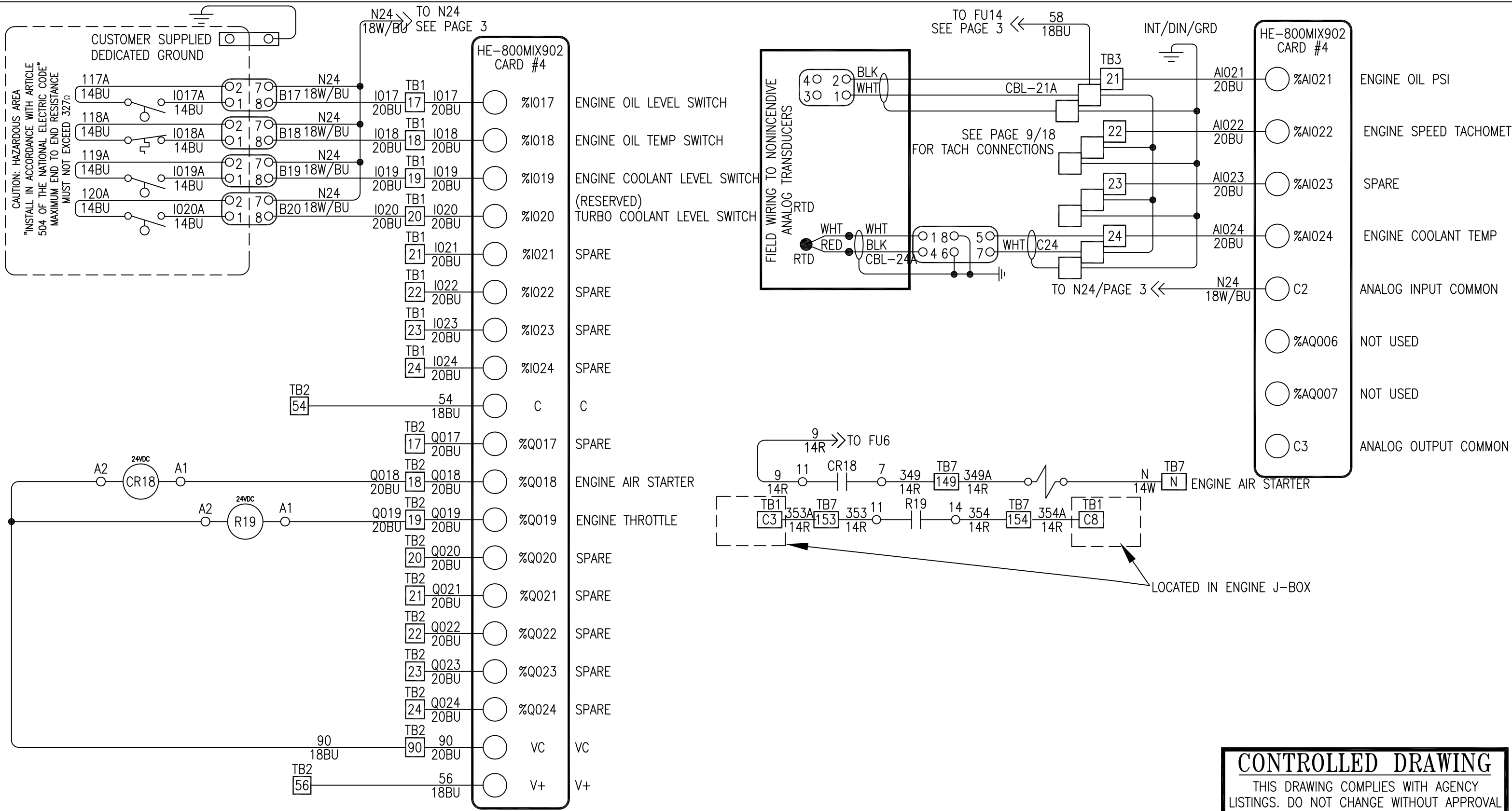
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CUSTOMER TRINIUM		PROJECT NO. 30495	
SHEET 6/19	SCALE 1:1	DRAWING NO. E03-30-30495-01	REV. B
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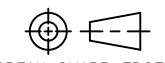
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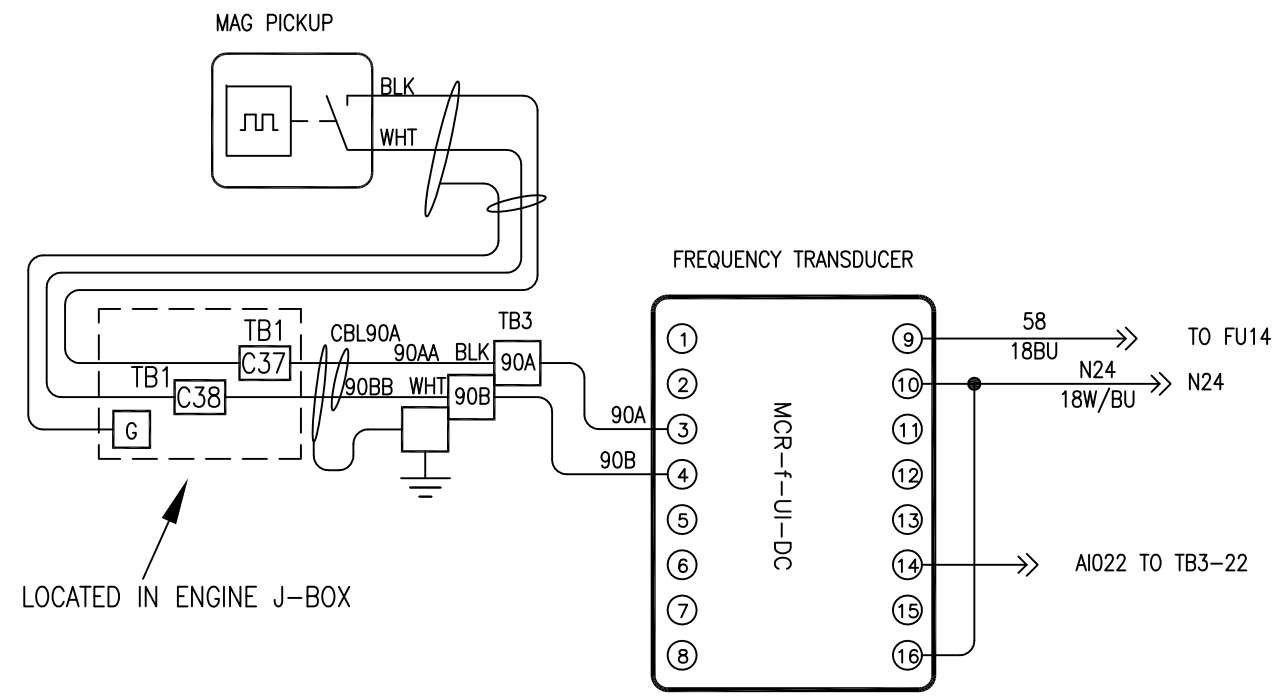
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BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES

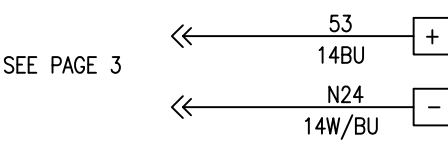
FRACTIONAL	±.125
TWO PLACE DECIMAL	±.010
THREE PLACE DECIMAL	±.005
ANGLES	±1°

TITLE NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE ARIEL FOUR STAGE/LEAD COMPRESSOR UNIT CONTROL PANEL	
CUSTOMER TRINIUM	PROJECT NO. 30495
SHEET 7/19	SCALE 1:1
DRAWN BY PJH	DATE 7/28/10
DRAWING NO. E03-30-30495-01	
REV. B	



GAS DETECTOR WIRING DETAILS
(OPTIONAL)

DIGITAL IGNITION POWER



CONTROLLED DRAWING

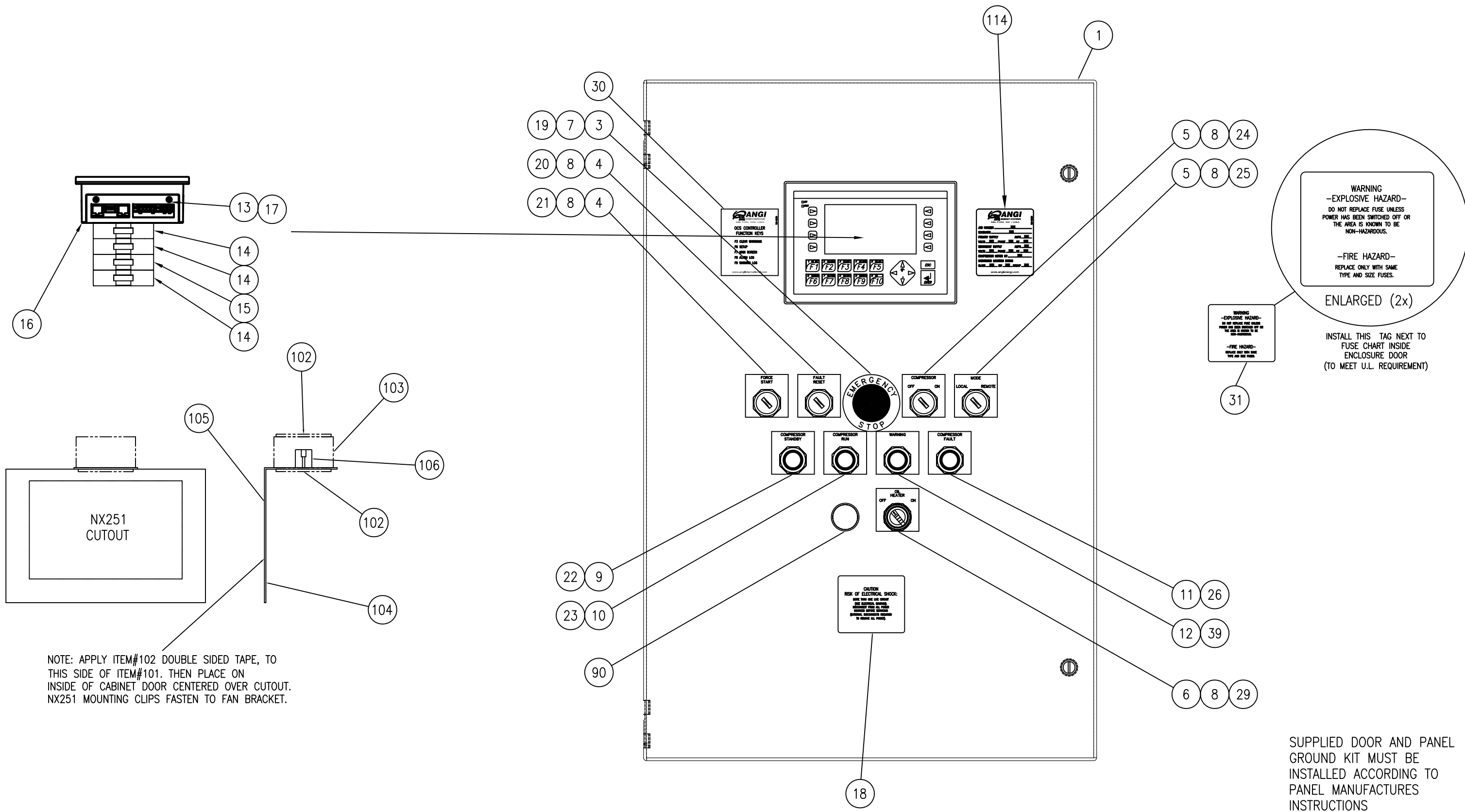
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							CUSTOMER TRINIUM		PROJECT NO. 30495			
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REV	DATE/BY	DESCRIPTION			REV		DATE/BY	DESCRIPTION				

NO.	QTY.	PART NUMBER	DESCRIPTION	LENGTH
1	1	921-07331	ENCL-HOFF 36Hx24Wx10D CONCEPT	
2				
3	1	480-07320	SWITCH-PUSH PULL SQ D W/LIGHT	
4	2	480-07276	SWITCH-KEY 2POS SPNG RET SQ D	
5	2	480-07275	SWITCH-KEY 2POS MAINT SQ D SEL	
6	1	480-07244	SWITCH-2 POS SEL MAINT SQ D NE	
7	1	400-07516	CONTACT-SQ D 1N/O 1N/C HERMETI	
8	6	400-07501	CONTACT-SQ D N/O HERM.	
9	1	463-07258	LAMP-INDICATING 24/28VDC AMBER	
10	1	463-07259	LAMP-INDICATING 24/28VDC GRN	
11	1	463-07260	LAMP-INDICATING 24/28VDC RED	
12	1	463-07257	LAMP-INDICATING 24/28VDC BLUE	
13	1	400-07617	OCS-NX251 GE PLC/OP INTERFACE	
14	3	400-07618	OCS-STACK MIX902 FOR NX251	
15	1	400-07626	OCS-NXADC920 12AT 4-20 FOR NX2	
16	1	406-07265	CARD-COMPACT FLASH 1GB	
17	6	200-07270	CLIP-MOUNTING OCS NX251	
18	1	FC 793-08001	TAG-WARNING/RISK OF ELECT SHOC	
19	1	FC 793-09001	TAG-P.B. 1.2 EMERG/STOP 3.5" ROUND	
20	1	FC 793-01002	TAG-P.B. 1.2 FAULT/RESET	
21	1	FC 793-01051	TAG-P.B. 1.2 FORCE START	
22	1	FC 793-01005	TAG-P.B. 1.2 COMP/STANDBY	
23	1	FC 793-01053	TAG-P.B. 1.2 COMPRESSOR RUN	
24	1	FC 793-01016	TAG-P.B. 1.2 COMPR/OFF-ON	
25	1	FC 793-01008	TAG-P.B. 1.2 LOCAL-REMOTE/MODE	
26	1	FC 793-01006	TAG-P.B. 1.2 COMP/FAULT	
27	1	FC 793-05095	TAG-TERMINAL R02 1/2x1 BLK/WHT	
28	1	FC 793-05018	TAG-TERMINAL CR17B 1/2x1 BLK/WHT	
29	1	FC 793-01211	TAG-P.B. 1.2 OIL-HEATER/OFF-ON	
30	1	FC 793-08000	TAG-OCS CONTROLLER FUNCTIONS	
31	1	FC 793-08002	TAG-WARNING FUSE REPLACEMENT	
32	1	793-07234	TAG-WARNING/SUBSTITUTION OF CO	
33	1	FC 793-05001	TAG-TERMINAL TB1 1/2x1 BLK/WHT	
34	1	FC 793-05002	TAG-TERMINAL TB2 1/2x1 BLK/WHT	
35	1	FC 793-05003	TAG-TERMINAL TB3 1/2x1 BLK/WHT	
36	1	FC 793-05005	TAG-TERMINAL TB5 1/2x1 BLK/WHT	
37	1	FC 793-05007	TAG-TERMINAL TB7 1/2x1 BLK/WHT	
38	1	FC 793-05017	TAG-TERMINAL CR17A 1/2x1 BLK/WHT	
39	1	FC 793-01052	TAG-P.B. 1.2 WARNING	
40				
41	1	407-07253	POWER SUPPLY-24VDC 10A CL1 DIV	
42	1	FC 793-05025	TAG-TERMINAL CR17 1/2x1 BLK/WHT	
43	17	FC 432-07245	TERMINAL BLK-END CLAMP DIN	
44	7	FC 432-07256	TERMINAL BLK-GROUND DIN RAIL	
45	18	FC 432-07319	TERMINAL BLK-UK5N 41AMP 800V	

	NO.	QTY.	PART NUMBER	DESCRIPTION	LENGTH
	46	6	FC 432-07321	TERMINAL-END COVER DUK 4/10	
	47	85	FC 432-07292	TERMINAL BLK-UKK5 2-TIER 32AMP	
	48	9	FC 432-07293	TERMINAL-END COVER UKK5 FOR 2-	
	49	25	FC 432-07295	TERMINAL BLK-1.5 3LEVEL ACTUAT	
(B)	50	4	FC 432-07375	TERMINAL MARKER-UC-TM 6 UNPRINTED	
(B)	51				
(B)	52				
(B)	53				
(B)	54				
(B)	55				
(B)	56				
(B)	57				
(B)	58				
(B)	59				
(B)	60				
(B)	61				
(B)	62				
(B)	63	1	FC 793-05094	TAG-TERMINAL CR18 1/2x1 BLK/WHT	
(A)	64	2	FC 793-08008	TAG-INTRINSIC AREA ONLY	
	65	2	FC 432-07360	TERMINAL BRIDGE-41AMP UK5N SCR	
	66	16	441-07250	FUSE HOLDER-AGC TYPE SCREW CAP	
	67	2	FC 441-07251	FUSE HOLDER-BRIDGE UK10 DRGNSI	
	68	1	800-07323-01M	CABLE ASSY-SIXNET/OCS/DB9M-DB9	
	69	20	440-07307	FUSE-3 AMP 250V AGC FAST ACT	
	70	4	440-07273	FUSE-10 AMP AGC FAST ACTING	
	71	2	440-07254	FUSE-5 AMP AGC GLASS CARTRIDGE	
(A)	72	1	490-07241	RELAY W/BASE 120V 6A 35MM DIN	
(A)	73	14	490-07249	RELAY W/BASE 24V 6AMP PDT	
(B)	74	4	200-07256	CLIP-RELAY RETAINING SQ-D 8501	
(B)	75	4	490-07271	RELAY-24V 4PDT SQ D HERM SEAL	
(B)	76	4	492-07232	BASE-RELAY 4PDT SQ D HERM SEAL	
	77	1	906-07250	MODEM-HORNER CL1 DIV2	
	78	4	400-07889	TRANSMITTER-TEMP 32 TO 392F UL -	
	79	9	400-07881	BARRIER-DIGITAL 728 P&F UL LISTED (NO	
	80	2	400-07260	SPACER-INSULATING DIN RAIL	
	81				
(A)	82	3	FC 432-07257	RAIL-DIN 35MM TERMINAL	73.00"
	83	36	FC 450-07231	TROUGH-SLOTTED 2x2 WHT WIRING	35.00"
	84	36	FC 450-07232	TROUGH-COVER WALL 2 WHT WIRING	35.00"
	85	60	FC 450-07238	TROUGH-WIRE 1x2 WHT F TYPE	45.00"
	86	60	FC 450-07239	TROUGH-COVER WALL 1"x6' WHT F	45.00"
	87	48	FC 450-07237	TROUGH-WIDE SLOT 3x2 WHT WIRE	46.00"
	88	48	FC 450-07236	TROUGH-COVER WALL 3 WHT WIRING	46.00"
(A)	89	14	FC 400-07712	PLATE-ISOLATION TERMINAL STRIP	
	90	1	310-07275	PLUG-HOLE 30MM WEATHER PROOF S	

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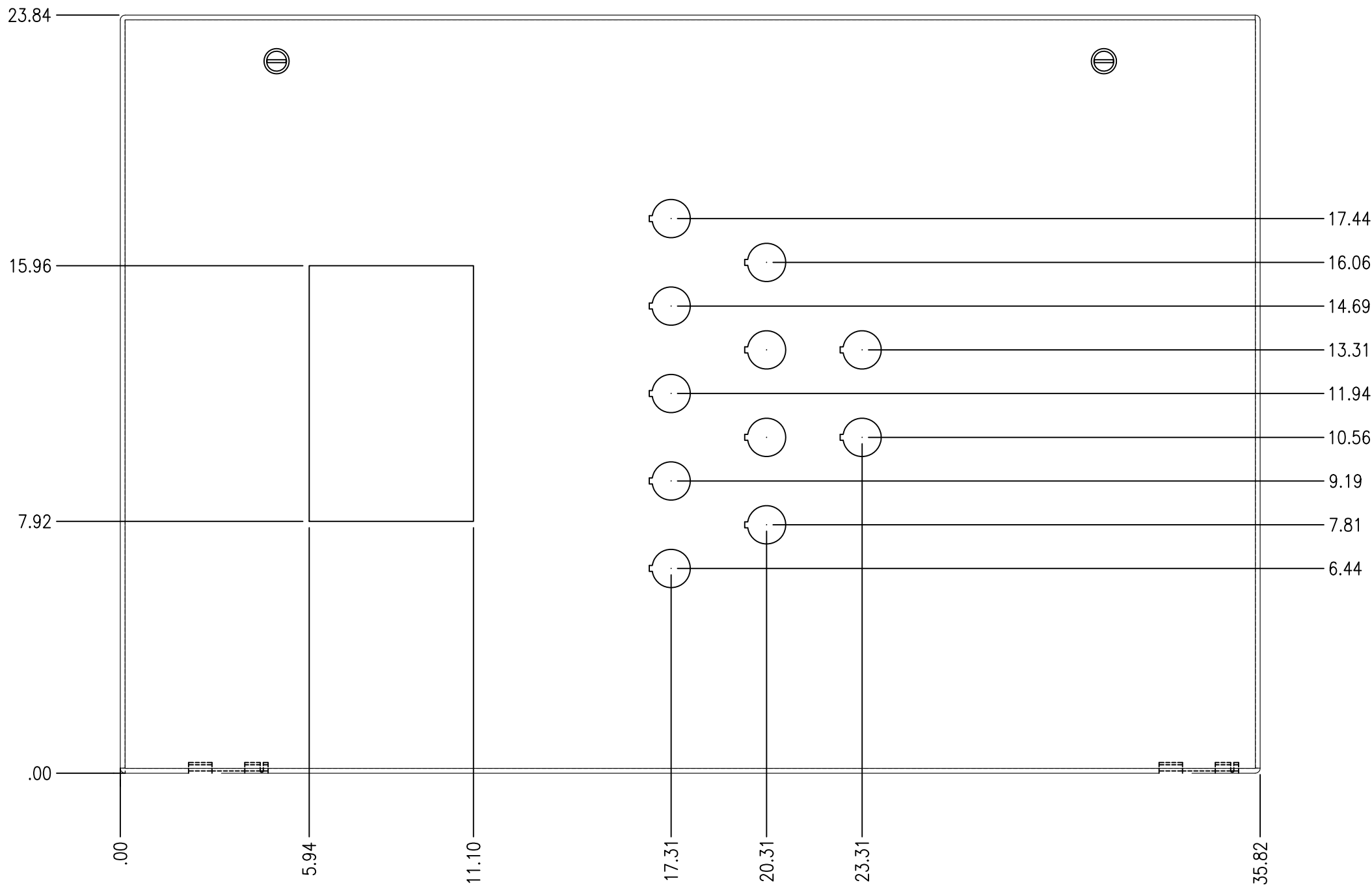
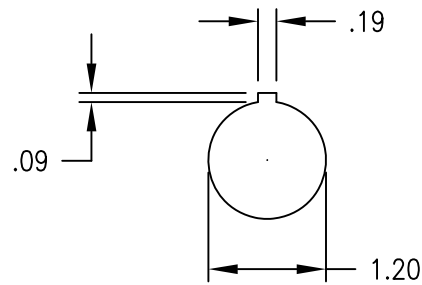


NOTE: APPLY ITEM#102 DOUBLE SIDED TAPE, TO THIS SIDE OF ITEM#101. THEN PLACE ON INSIDE OF CABINET DOOR CENTERED OVER CUTOUT. NX251 MOUNTING CLIPS FASTEN TO FAN BRACKET.

SUPPLIED DOOR AND PANEL GROUND KIT MUST BE INSTALLED ACCORDING TO PANEL MANUFACTURES INSTRUCTIONS

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							CUSTOMER TRINIUM		PROJECT NO. 30495			
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01						SHEET 11/19	SCALE 1:5	DRAWING NO. E03-30-30495-01	REV. B	
REV	DATE/BY	DESCRIPTION			REV		DATE/BY	DESCRIPTION				

TYPICAL KNOCK-OUT FOR SWITCHES AND LAMPS
(SCALE 2:1)



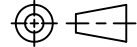
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



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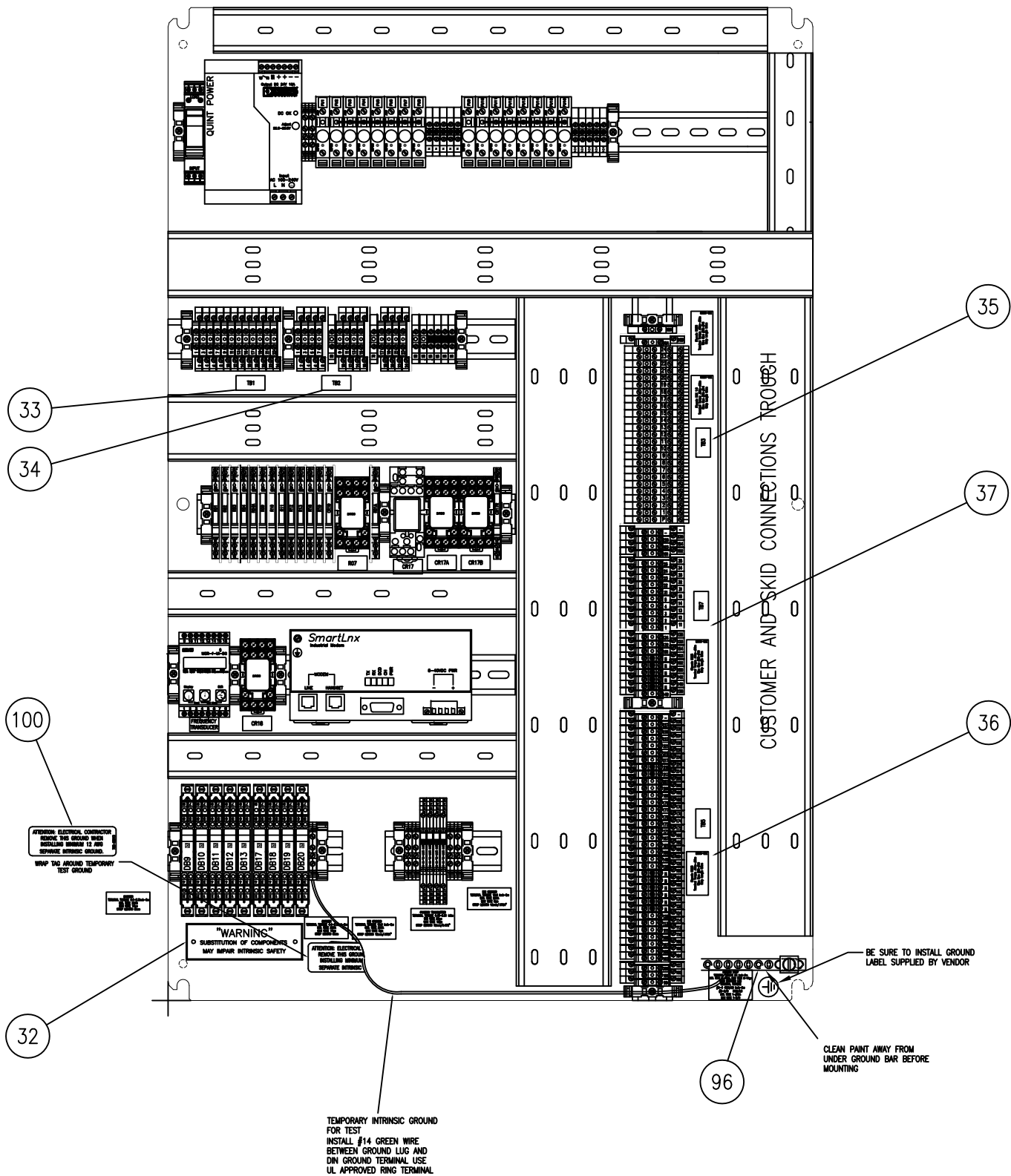
UNLESS OTHERWISE SPECIFIED



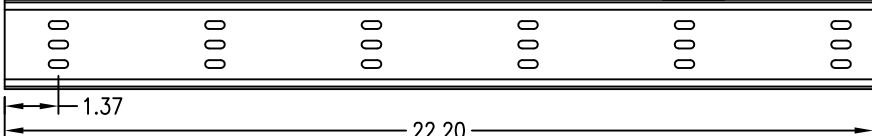
BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES

FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

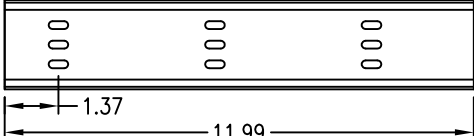
TITLE		NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE CONTROL PANEL CLASS 1 DIV 2			
CUSTOMER		TRINIUM		PROJECT NO. 30495	
SHEET	12/19	SCALE	1:4	DRAWING NO.	REV.
DRAWN BY	PJH	DATE	7/28/10	E03-30-30495-01	B



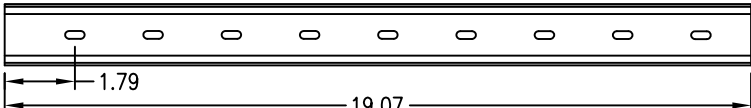
ITEM 83, 84
DETAIL: PA
TROUGH-SLOTTED
2x2 WHT WIRING



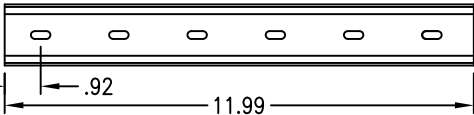
ITEM 83, 84
DETAIL: PB
TROUGH-SLOTTED
2x2 WHT WIRING



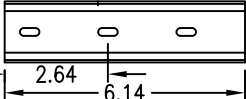
ITEM 85, 86
DETAIL: PC
TROUGH-SLOTTED
1x2 WHT WIRING



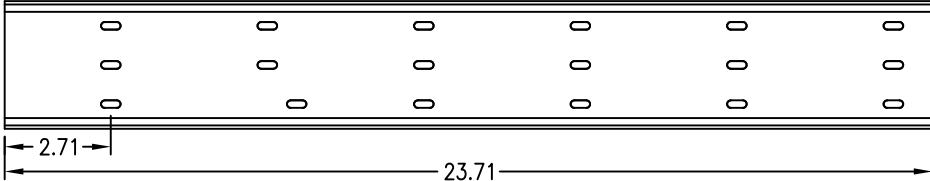
ITEM 85, 86
DETAIL: PD
TROUGH-SLOTTED
1x2 WHT WIRING



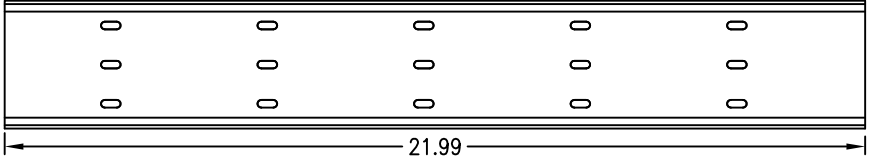
ITEM 85, 86
DETAIL: PF
TROUGH-SLOTTED
1x2 WHT WIRING



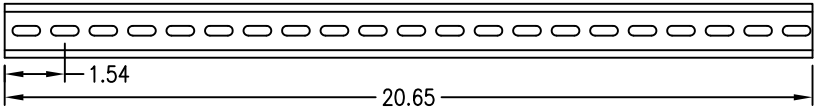
ITEM 87, 88
DETAIL: PG
TROUGH-SLOTTED
3x2 WHT WIRING



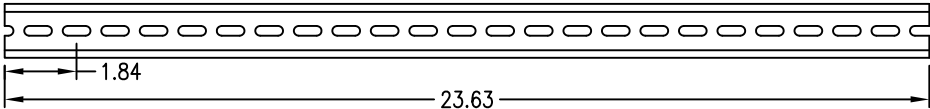
ITEM 87, 88
DETAIL: PH
TROUGH-SLOTTED
3x2 WHT WIRING



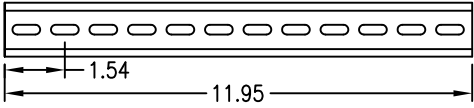
ITEM 82
DETAIL: DA
35MM DIN RAIL



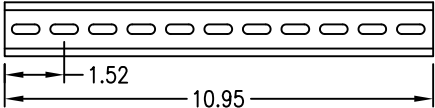
ITEM 82
DETAIL: DB
35MM DIN RAIL



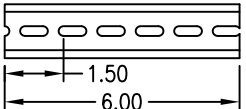
ITEM 82
DETAIL: DC
35MM DIN RAIL



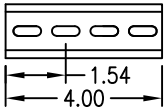
ITEM 78
DETAIL: DD
35MM DIN RAIL



ITEM 82
DETAIL: DE
35MM DIN RAIL



ITEM 82
DETAIL: DF
35MM DIN RAIL



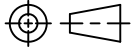
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
B	12-06-10 NDA	AS BUILT ECN#101206-02			
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			



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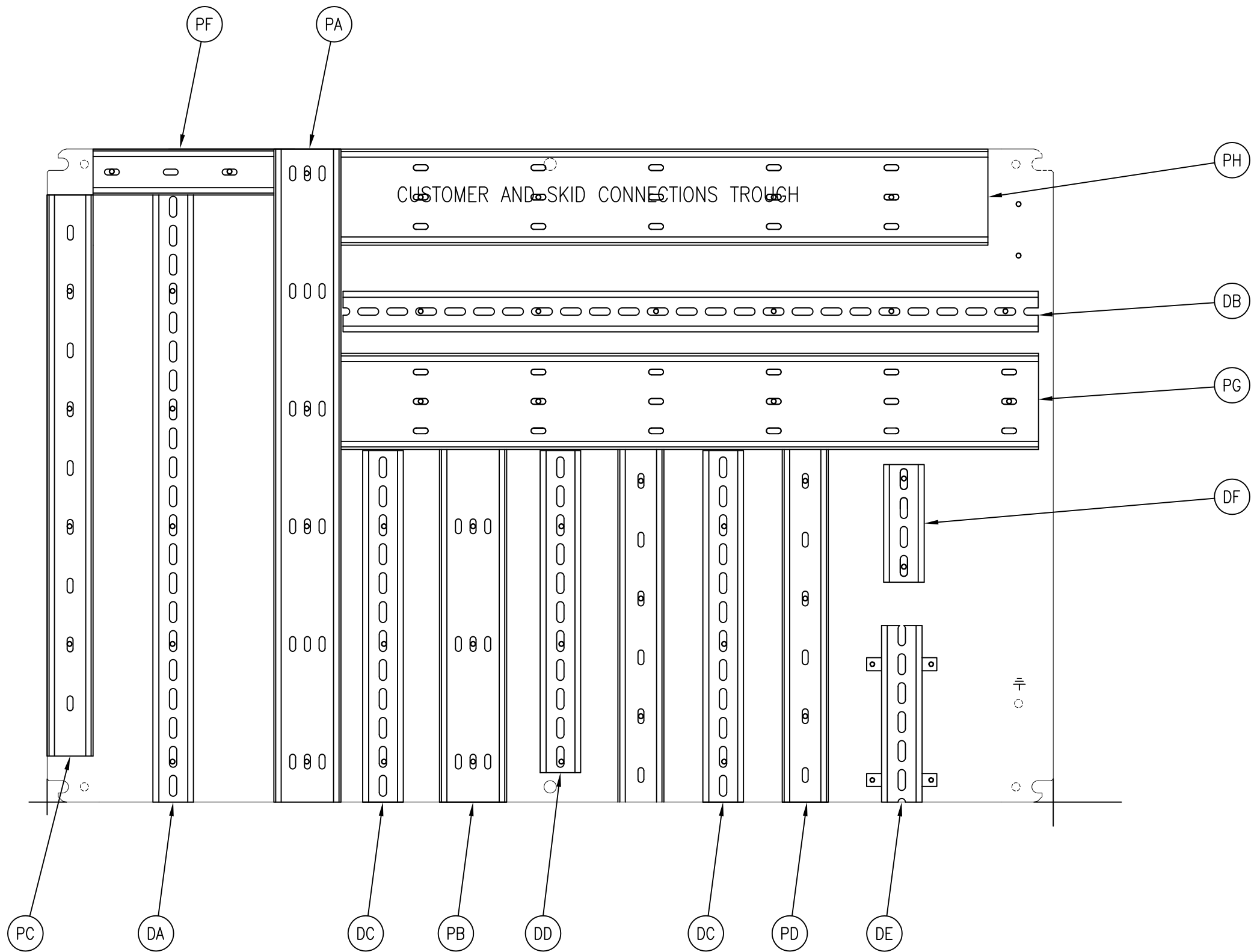
UNLESS OTHERWISE SPECIFIED



BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES

FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE						NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE CONTROL PANEL CLASS 1 DIV 2						
CUSTOMER			TRINIUM			PROJECT NO.			30495			
SHEET		13/19		SCALE		1:5		DRAWING NO.			REV.	
DRAWN BY		PJH		DATE		7/28/10		E03-30-30495-01			B	



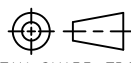
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



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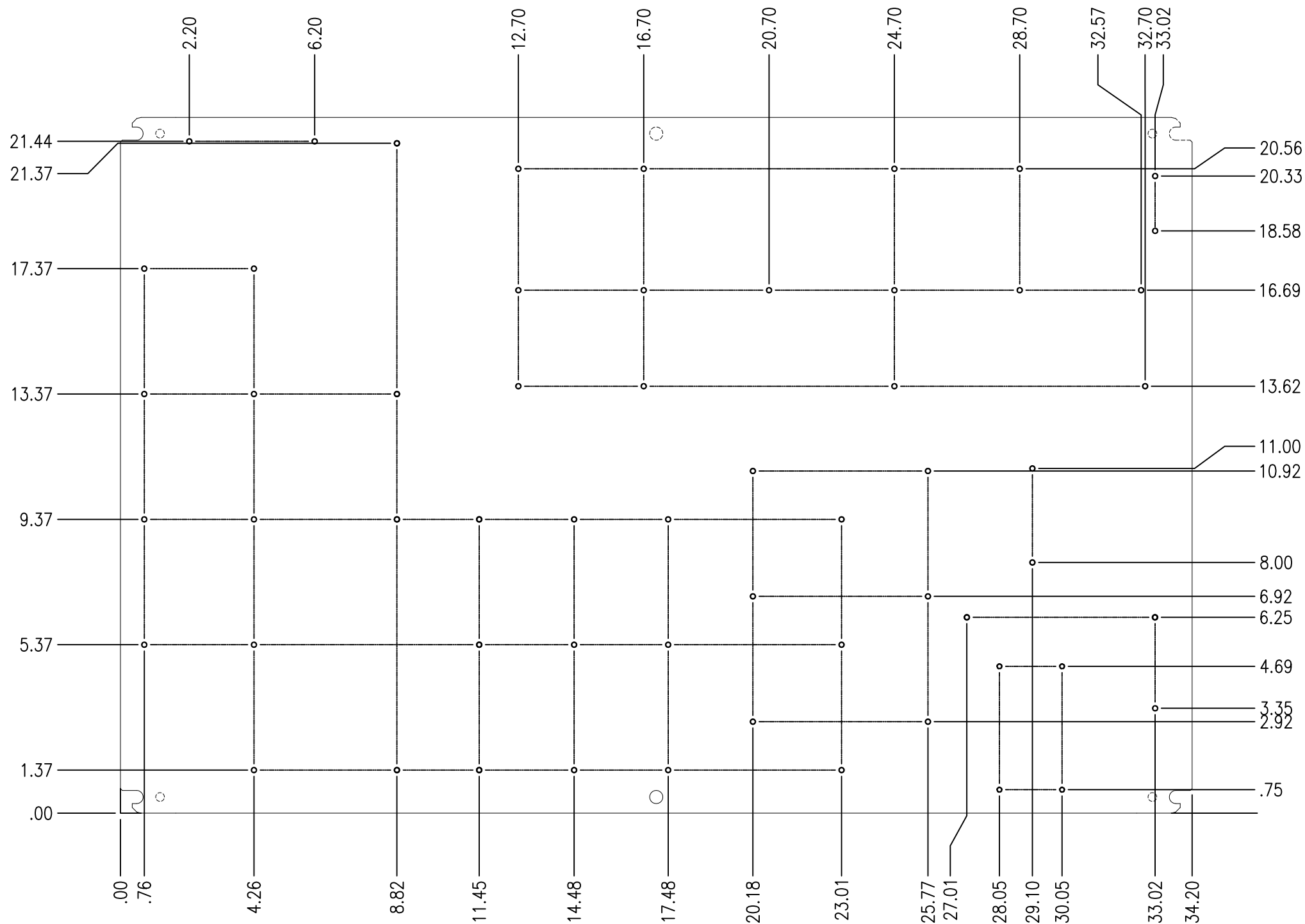
UNLESS OTHERWISE SPECIFIED

 BREAK SHARP EDGES

ALL DIMENSIONS IN INCHES

FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE CONTROL PANEL CLASS 1 DIV 2					
CUSTOMER TRINIUM			PROJECT NO. 30495		
SHEET 14/19		SCALE 1:4		DRAWING NO. E03-30-30495-01	
DRAWN BY PJH		DATE 7/28/10		REV. B	



A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION

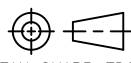


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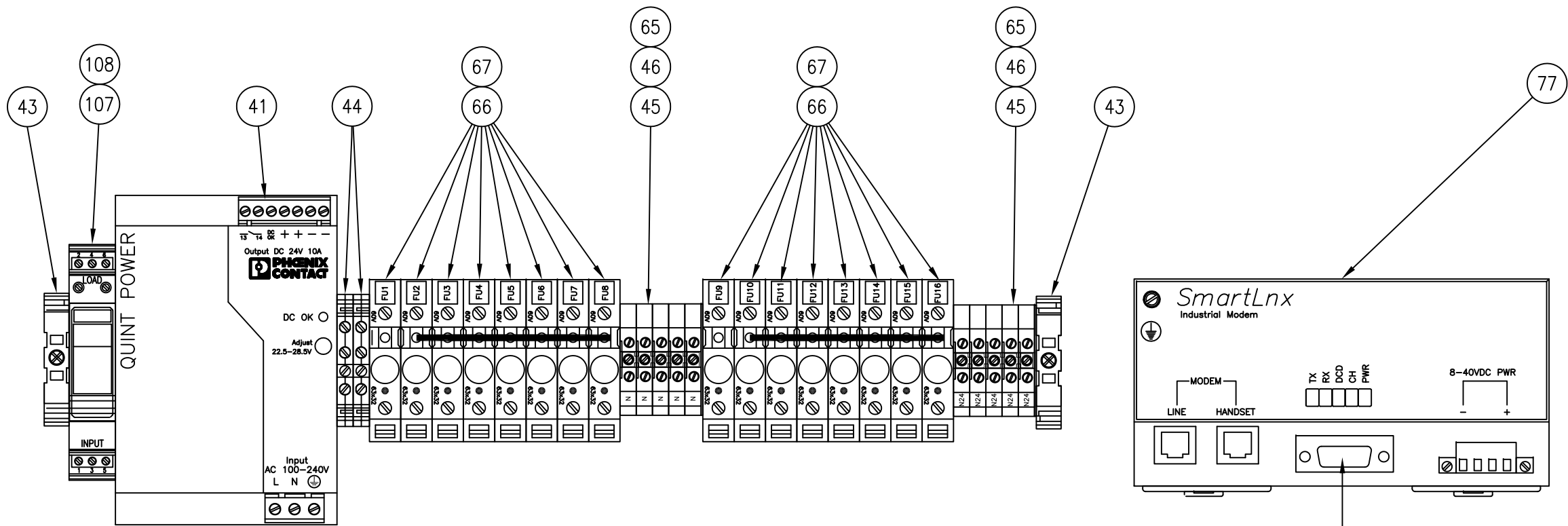
UNLESS OTHERWISE SPECIFIED

 BREAK SHARP EDGES

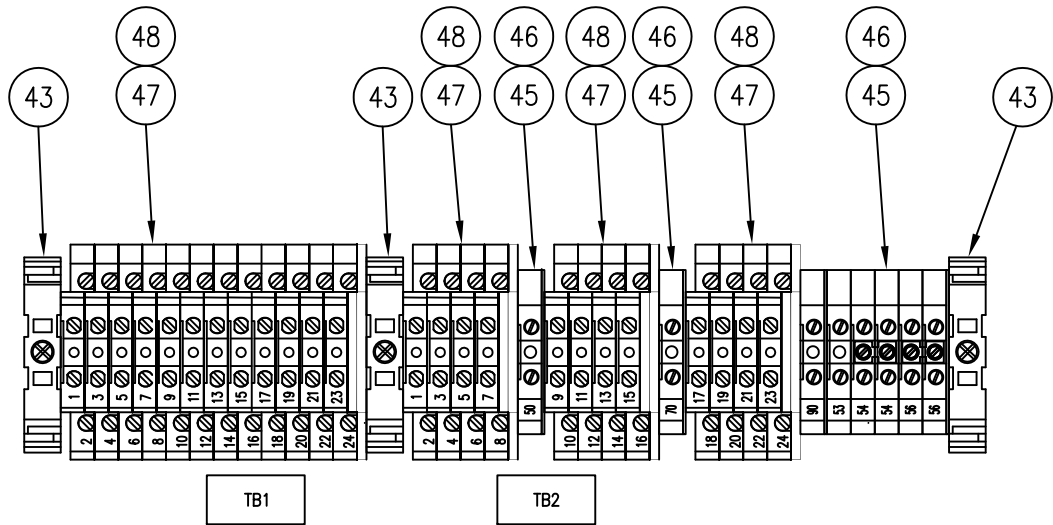
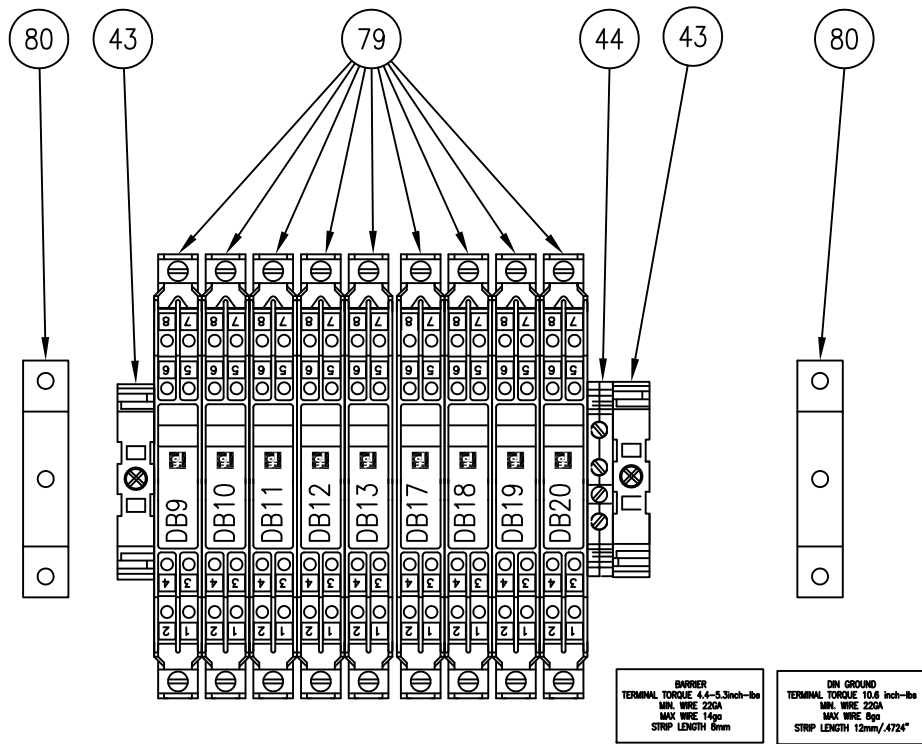
ALL DIMENSIONS IN INCHES

FRACTIONAL ±.125
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE		NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE CONTROL PANEL CLASS 1 DIV 2	
CUSTOMER		TRINIUM	PROJECT NO. 30495
SHEET	15/19	SCALE	1:4
DRAWN BY	PJH	DATE	7/28/10
DRAWING NO. E03-30-30495-01			REV. B



*NOTE: ITEM #68 IS TO BE ROUTED WITH WIRES FROM CONTROL PANEL TO THE WIRING ON ENCLOSURE DOOR AT ASSEMBLY.



INSTALL MODEM LABELED END OF ITEM #68 INTO DB9 PORT OF MODEM AT ASSEMBLY.

INSTALL PLC LABELED END OF ITEM #68 INTO DB9 PORT OF PLC AT ASSEMBLY.

REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			

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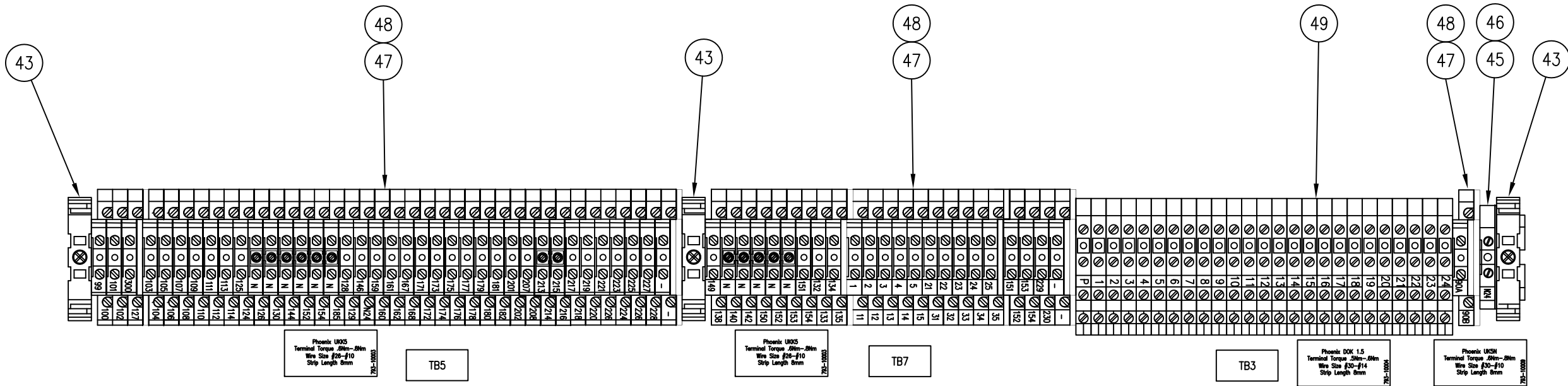
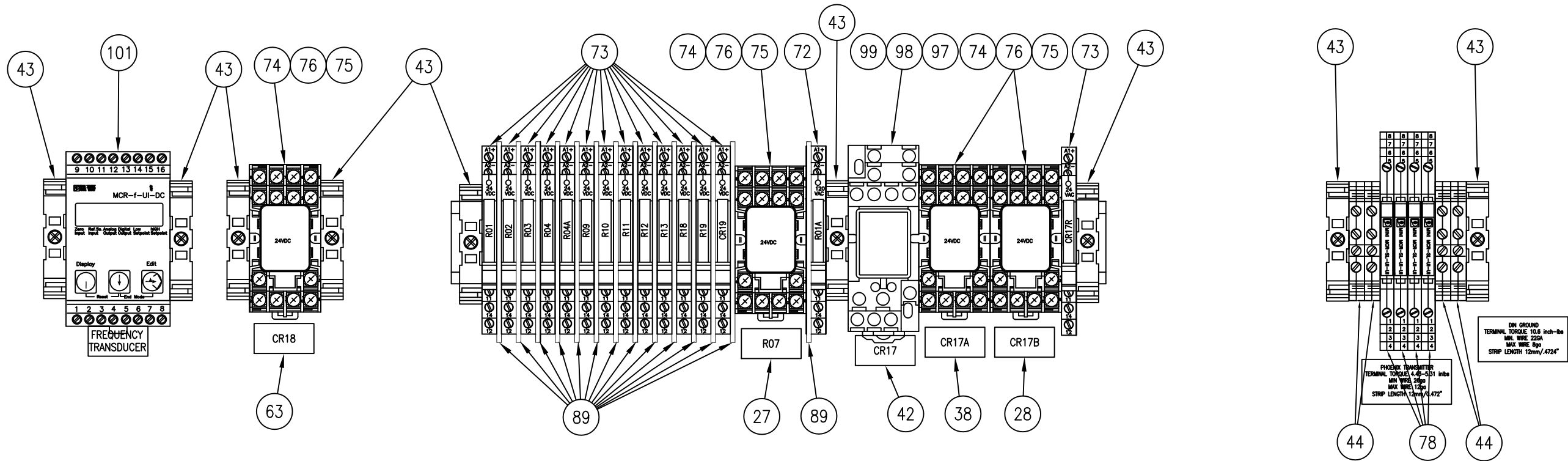
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BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES

FRACTIONAL	±.125
TWO PLACE DECIMAL	±.010
THREE PLACE DECIMAL	±.005
ANGLES	±1°

TITLE NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE CONTROL PANEL CLASS 1 DIV 2	
CUSTOMER TRINIUM	PROJECT NO. 30495
SHEET 16/19	SCALE 1:2
DRAWN BY PJH	DATE 7/28/10
DRAWING NO. E03-30-30495-01	
REV. B	

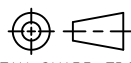


B	12-06-10 NDA	AS BUILT ECN#101206-02			
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION



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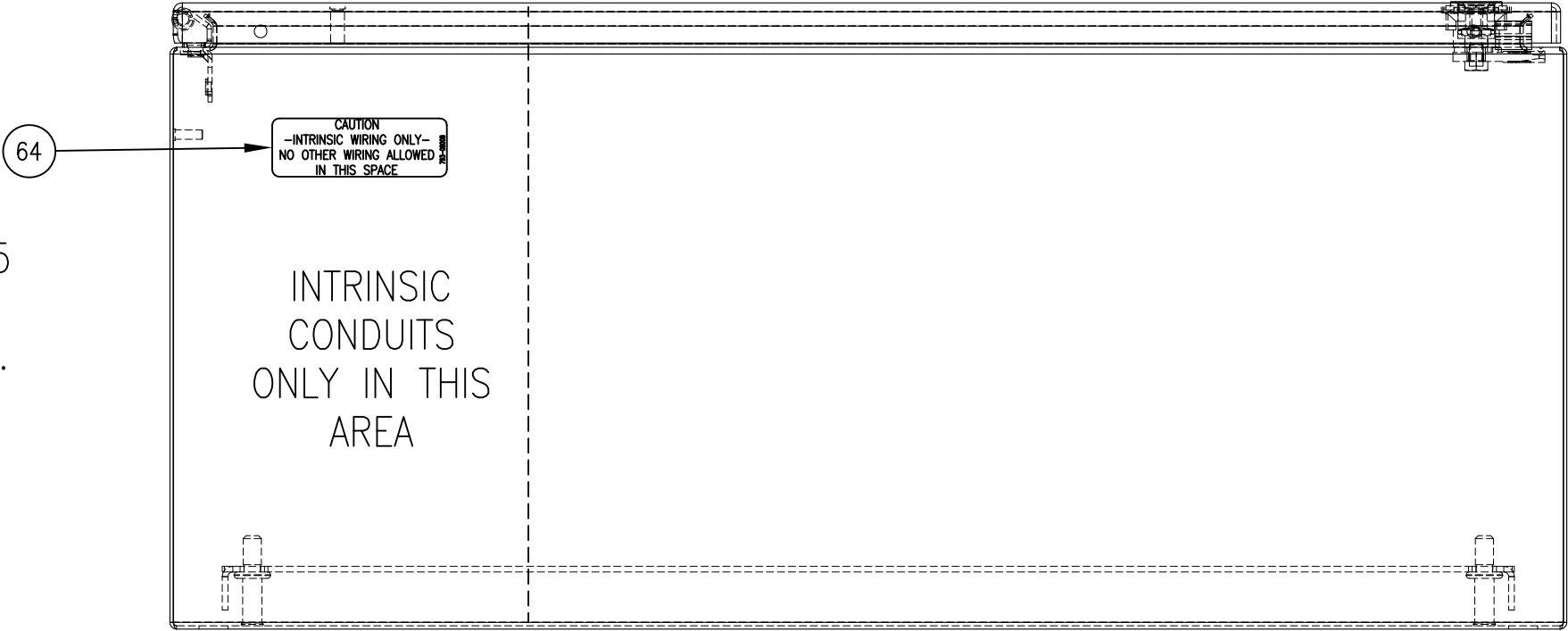


BREAK SHARP EDGES
ALL DIMENSIONS IN INCHES

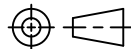
FRACTIONAL	±.125
TWO PLACE DECIMAL	±.010
THREE PLACE DECIMAL	±.005
ANGLES	±1°

TITLE NX 251-ELECTRICAL SCHEMATIC/ENGINE DRIVE CONTROL PANEL CLASS 1 DIV 2	
CUSTOMER TRINIUM	PROJECT NO. 30495
SHEET 17/19	SCALE 1:2
DRAWN BY PJH	DATE 7/28/10
DRAWING NO. E03-30-30495-01	
REV. B	

**NOTE: PLACE ITEM#75
INSIDE & OUTSIDE OF
ENCLOSURE AS SHOWN.



BOTTOM VIEW

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									CUSTOMER TRINIUM		PROJECT NO. 30495	
							BREAK SHARP EDGES		SHEET 18/19	SCALE 1:3	DRAWING NO. E03-30-30495-01	REV. B
A	10-26-10 NDA	ADD ENGINE INTERCONNECT ENCLOSURE AS BUILT ECN#100927-01					ALL DIMENSIONS IN INCHES		FRACTIONAL TWO PLACE DECIMAL THREE PLACE DECIMAL ANGLES	±.125 ±.010 ±.005 ±1°		
REV	DATE/BY	DESCRIPTION				REV	DATE/BY	DESCRIPTION				

